

# The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$20 U.S. third class mail, \$25 U.S./Canada/Mexico airmail, \$25 by surface and \$30 by airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4541 USA or to P O Box 762, Menlo Park, CA 94026 USA. My Internet address is frank@sneezy.sri.com. The bulletin may be freely quoted, provided that credit is given.

## WA5QCP on the Solar Cycle

Almost as soon as I wrote you, the solar flux began to shoot upwards, reaching 104 on Nov. 25 and 26 (WWV reports). The NGDC Solar Indices Bulletin, however, had a solar flux of 101 for these dates. Their numbers for all of November were lower than WWV values, by 1 to 3 points. Their October and earlier bulletins agree with WWV, so what gives? They gave no explanation.

As expected, the smoothed SSN was 8 for last May (my predicted month for minimum between Cycle 22 and 23). The NGDC minimum month should be about now with a predicted SSN of 6. So, we should be at or near the beginning of Cycle 23, which we can all hope will be at least as good as predicted in the Cushcraft ad inside the front cover of Dec. CQ.

## K6QXY on the DX Window

(from a December 1 Internet posting)

As a person who attended the SMIRK breakfast at Central States I would like to clarify my position on a few points. The proposal as put forth in QST is basically an East coast recommendation. The SMIRK breakfast was only used as a sounding board for this proposal. In no way should this be construed as a SMIRK endorsement for this plan. SMIRK volunteered to collect and disseminate information as did W3EP and others. Because of the wide cross section of people there it was thought a good idea to see what the overall opinion was. It is important to realize that what is hopefully to be accomplished here is a band plan that will work for everyone in the WORLD. If we are going to change the band plan we should come up with something that will take us into both cycle 23 and the 21st century. With that in mind here are my suggestions.

Identify problems:

- 1). 50.110 was a poor choice for "dx" calling frequency, i.e.; color burst oscillators, etc.
- 2). 50.125 was a mistake for the domestic calling frequency because it should never been so close to the band or window edge.
- 3). The present 25 kHz. "dx" window is too small for the above reasons.
- 4). The proposed 100kHz. "dx" window probably too large and would not be enforceable!

My recommended changes:

- 1). Expand the present "dx" window a modest 25 kHz., from 50.100 to 50.150 MHz.
- 2). Move the "dx" calling freq. to 50.125 MHz.
- 3). Move the domestic calling freq. to 50.200 MHz. 50.125 MHz would be in the middle of the "dx" window, 50.150 MHz. 50 kHz. should be large enough under most

circumstances. Moving the domestic calling frequency to 50.200 should solve the band/window edge splatter problem. Stations could spread out above and below this frequency, and this would greatly promote improved spectrum use! Moving the domestic calling frequency to 50.200 would also bring the United States in line with Europe... and probably the rest of the world soon.

4). Promote the use of 50.080-50.100 as an exclusive "cw" segment for weak signal work.

5). Discourage all beacons in this area, 50.080 to 50.100.

## LW5EJU on S American DX

The month of November had good transequatorial scatter openings with Venezuela, permitting us contacts with YV4YC and YY4GLD with good signals. It also allowed us to contact Scott, J86AS, on Santa Lucia Is. with good signals, especially on November 26.

Sporadic E activity was also good, permitting us to contact different regions of Brazil. The San Pablo repeater allowed us to contact PY2JQ and PU2MIZ with good signals. Also heard on occasion was the {elevator} music from Santiago Chile on 47.900 MHz.

Tropospheric conditions gave us a good surprise. After the passage of a storm front in the afternoon of November 29, at dusk we were able to contact in Southern Brazil cities of Porto Alegre and Canoas PY3ASN, PU3YXH, PY3PT, and PU3WPA. Without more information at the moment, I sent you my wish for your better happiness for these holidays and that you may have a very good beginning of 1997.

## QSL News

**Z32MA:** M. Kikerekov, UI Peter Mandjukov 38-B, Butell, 91000 Skipje, Rep. of Macedonia.

**N4KWX** posts that he has been unable so far to obtain QSLs for 1991-1992 6m QSOs with FY3FV, FY3FL, and CX8BE.

## Beacon News

**South Africa:** ZS1SES, JF96 is QRV on 50.080. Beacon keeper is ZR1EV. Also ZS6DN, KG44, is on 50.050 with a Yagi antenna pointed north, but does not ID; and ZS2SIX is on 50.005. Tnx SM7AED.

**Australia:** VK3OT writes that the "VK3SIX beacons are {presently} colocated on 50.293 and 28.293 to permit stations monitoring them to flick between VFOs without having to change the dial settings. The 293s are within 100 Hz. The antennae are both aimed at ZS6 South Africa to examine the summer spread F across the polar route.

In view of the lack of Es the rising solar flux and the daily observation of 48 and 49 Mhz TV, I think we have missed the boat for ZS via Extended Es Spread F or auroral Es. I personally think that the beacons should be pointing North. However the JAs have worked VK thousands of times before so an opening down under albeit brief is inconsequential."



## October-December 1996 DX Reports

The following reports of 50 MHz and higher DX propagation are courtesy of G4UPS, SM7AED's *Six-metre Info*, JA1VOK's columns *World VHF News* in FIVE NINE and *V/UHF DX Topics* in MOBIL HAM, YO7VS, ZR1AEZ, ZL1MQ, VK3OT, PY5CC, LW5EJU, VE7SKA, K6QXY, W0MTK, W5UWB, WB7QBS, and postings on the Internet. We are especially indebted to GJ4ICD for forwarding "spots" from the European packet system for the month of October. These may be recognized by their distinctive style, with frequency in kHz running into the mode column. He and I wish to bring attention to the number of hams using the 50.110 DX calling frequency for inter-European QSOs. Apologies to any sources I may have inadvertently neglected.

The first entry is *mmddhhii*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 1996. A + to the right of the time indicates the observation was one of several in a time period and is probably later than the time reported. A ~ indicates approximate time. "sp" indicates spurious emission, "st" indicates stereo, "car" indicates carrier. The grid square of the observing station may occur after a > symbol; however a time after > indicates the opening was still in progress at this time. A t indicates tentative identification of a TV station. Symbols just before the call of the reporting station include: T=Television, A=Baby Room Monitor, P=Cordless Phone, V=Video Carrier, I=Inband video sidebands, F=FM audio, B=beacon, C=CW, S=SSB, W=mode not mentioned, H=heard only.

## Reports of Africa

### MADEIRA IS.

10161723 CT3FT IM13TA>JO22OC 50110 PA3BFM

### NAMIBIA

10161549 V51VHF 59 io91pg>jg87 50018 G7EXO  
10161602 V51VHF 559 > IO92 50018 G0PQO  
10161634 V51VHF JG87>IO91 559 50018 G4RGK  
11100330 V51VHF S8 50.0185 B ZR1TRD  
11151050 V51VHF -1125 >JF96 50.0185 B ZR1EV  
11151125 V51VHF S9+ > JF96 330-335° B ZR1EV  
11170330 V51VHF S8 B ZR1TR  
11180500+V51VHF S9+ 330-035° flutter B ZR1EV  
11180500-V51VHF > KG44 50.0185 B ZR6PVW  
11250805 V51VHF 59+ -1047 50.0185 B ZR1EV

### SOUTH AFRICA

11100735+ZR5FA 59/59 Fred -1030 ZR1TRD  
11100735+ZR6ARF 59/59 Willie -0855 ZR1TRD  
11100735+ZR6MD 59/59 Magda -0855 ZR1TRD  
11100735+ZS5LC 59/59 Louis -1030 ZR1TRD  
11170725 ZR6MD, ZS6ARF < 1030 50.20 W ZR1EV&TR  
11170725+ZR5FA, ZS5LC < 1030 50.20 W ZR1EV&TR  
11180500-ZS2SIX > KG44 50.005 B ZR6PVW  
11180500+ZR1TRD 035° 50.200 H ZR1EV  
11180530 ZR6MD 50.200 W ZR1EV  
11180530 ZS6DN S3+ no keying 50.050 B ZR1EV  
11180530-ZR6PVW 50.200 W ZR1EV  
11180620 ZS5LC S9 KG50CP W ZR1EV  
11180628 ZR5FA S9 KG52JF W ZR1EV  
11180630-ZR5ADQ 55 KG50IA H ZR1EV  
11180640 ZR6ARF 58 KG44FH W ZR1EV

## Reports of Asia (Far East)

### ASIA, GENERAL

12130400+ASIAN TV 539 @325° 49.75 V VK3OT  
12130800+ASIAN TV 48.2396/250/2604 V VK3OT  
12140400 ASIAN TV >0700 48.2396 V VK3OT

### CHINA

12220430+BY? Video 319 49.7500 V VK3OT

12230415 BY Video 559 49.750 V VK3OT  
12230530 BY Chinese 599+ 49.7506 V VK3OT  
12230530+BY 599 49.7491/49.7464 V VK3OT

### HONG KONG

10270529 VS6BG > PM86 50.110 S JA9BHZ

### JAPAN

11040346 JM4KOR/4 PM64> QM05 50.190 S JA1VOK Tr  
11040405 JA4GHC/4 PM53> QM05 50.152 S JA1VOK Es  
1109XXXX JA9 ZL2TPY  
12131340 JA1VOK MS > QN03 144.055 H JA8RC  
12131348 JA8TMP(QN12) MS 50.165 C JA1VOK  
12140330 JA8RC? 50.110 H VK3OT  
12140330 JA8RC? 50.110 H VK5PO  
12141351 JR8SQC/8 (QN02) MS 50.153 S JA1VOK  
12150205 JE3WVA/9 (PM75) Tr 50.151 S JA1VOK  
12150207 JA9BHZ (PM86) Tr 50.270 S JA1VOK  
12150217 JG4PSV (PM53) Es 50.197 S JA1VOK  
12150219 JH6VXP (PM53) Es 50.193 S JA1VOK  
12150221 JI6AOE (PM53) Es 50.225 S JA1VOK

### KOREA,S.

10 4 945 DS1CMD 51.080 H JA2  
10 4 902 HL1LTC 50.110 H JA2  
10 41009 HL1OSF 51.080 F JE2DWZ  
11040924 HL1LTC > QM05 50.120 S JA1VOK  
11041011 HL1LTC > QM05 51.020 F JA1VOK  
11110440 HL1LTC > PM74 50.110 H JJ3WXG  
11230841 HL1LTC > QM05 50.120 S JA1VOK

### MALAYSIA, GEN.

12220430+9M? Video 319 48.240/25/26 V VK3OT  
12230500 9M Malay 559 48.2496 V VK3OT  
12230500+9M Malay 559 48.2500 V VK3OT  
12230545 9M TV TO ADELAIDE 48.250 V VK5LP/ZLX  
12230600+9M TV 330->310° 48 V VK3OT  
12230600+9M TV 599+ 48.2500/2502 V VK3OT  
12230610+9M TV TO MELBOURNE 48 V VK3AMZ

### RUSSIAN FEDERATION (Asia)

12140400 UA TV >0700 49.7504 V VK3OT  
12150345 UA TV Vladivostok 49.750 V VK3OT  
12220521 UA0 Vladivostok-0530 49.750 V VK3OT

### TAIWAN

10270532 BV2SR > PM86 50.120 S JA9BHZ  
11030915 BV2FG/b > PM63 50.001 B JA5CMO  
11070930 BV2FG/b > PM63 50.001 B JA5CMO

## Reports of Europe

### EUROPE GENERAL

10020744 VIDEO weak 50000 G7EXO  
10030838 VIDEO audio+jamming 50000 G7EXO  
10141031 EUR VIDEO 9/5 > io91pg 50000 G7EXO  
10141342 EUR VIDEO returning 59 50000 G7EXO  
10200734 EUR VIDE qtf 45 inband 49760 G4FUF  
10221846 VIDEO 48250 South, 50000 G4IFX  
11100915 EUR INBAND TV STRONG FM SE I SM7AED  
11101111+EUR INBAND TV -1310 I G4UPS  
11191330 EUR TV VID 49.739 V SM7AED

### AUSTRIA

10061411 OE5XBL JN68PC Tr 372Km 50110 DL3AMA  
10120918 OE7BAI CQ DL JN57OG 50090 OE7BAI  
10141107 OE2TE jn67>io92 50120 G4AFJ  
10141403 OE6LOG JN96 > JO56 50122 OZ5AGJ  
10201106 OE5UAL 50120 DL8FCK  
11101140 OE9NHI JN47 > JO65 SM7AED  
11101221 OEM1ISA 59/59 JN88DF HEINZ S G4UPS  
11170921 OE2UKL 59/59 JN67 > IO80 S G4UPS

### BALEARIC IS.

10131930 EH6IF JN20 > JN48 50112 DL2GBT  
10201007 EH6IF 59 in JO61 50120 DD0VF  
10231112 EH6ADW 599/599 JM19 > KN14 C YO7VS

### BELGIUM

10011533 ON5SE tropo 50110 DK3RV



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111011106 G0JJL IO83 > JO65 SM7AED
111011108 G4EHD IO93 > JO65 SM7AED
111011110 G1SNK IO93 > JO65 SM7AED
111011111 G1HLT IO93 > JO65 SM7AED
111011113 G3APY IO93 > JO65 SM7AED
11140552 G3CCH MS > JO65 SM7AED
11150850 G4UPS IO80 > JO65 MS SM7AED
11150858 G3CCH MS > JO65 SM7AED
11170909 MM0AMW 59/51 IO75EJ > IO80 S G4UPS
11190852 G4UPS, 0858 G3CCH MS SM7AED
11200850 G4UPS, 0856 G3CCH MS SM7AED
11210548 G3CCH MS SM7AED
11220856 G3CCH MS SM7AED
11250840 G4UPS, 0856 G3CCH MS SM7AED
11260848 G4UPS, 0858 G3CCH MS SM7AED
11280550 G3CCH MS SM7AED
11290850 G4UPS MS SM7AED
11301718 G4PPB IO82 > JO71 50.110 DL9US

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## BULGARIA

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10141352 LZ2FT      from KN34PC      50114 DJ6TK
10141417 LZ2FT      KN34 > JO30      50114 DK9KX
10141442 LZ2FT      599              50106 DJ6TK
10151355 LZ3BD      KN12 > JO53FG      50106 DJ6TK
10151436 LZ3BD      KN12 > JO56        50110 OZ5AGJ
10201036 LZ1KDP      50131 PE1WT
10291205 LZ1BB      KN12 > JO65        SM7AE

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## CAPRI

10201125	IC8CQF	JN70>JN48	599	50156	DL8SET
10201204	IC8COF	JN70CN>JN48VT		50155	DL3YT

## CRETE

10141720 SV9SIX KM25 559 &gt;JO60 50010 OK1DDO

## CROATIA

10141412	9A7V	from JN86EH	50110	DJ6TK
10201031	9A3FT	jn83fm	50125	PE1IWT
10201122	9A3XR	jn83	50172	PA0ION
10201214	9A3TU		50154	ON1BJP
10201215	9A3TU		50154	G4SEU

## CZECH REPUBLIC

11301644	OK2BGW	57 JN89>IO81	50.110	G6YNL
11301714	OK2BGW	JN89 > IO92	50.110	G4VPD

## DENMARK

10031056	OZ1US	JO55GP>	JO53FG	50110	DJ6TK
10031513	OZ6VHF	JO57 ->	JO55	50054	OZ7M
10031856	OZ7IGY/B	rst:549	jo43	50021	DJ9YE
10141352	OZ6VHF/B	JO57	559>JN76	50054	OE6LOG
10141405	OZ5AGJ	JO56DF	59>JN76	50123	OE6LOG
10221657	OZ1IEP	JO65ER		50170	OZ1IEP
10221707	OZ5W/P	jo55>jo32	tr	50160	PA2TAB
10221711	OZ9SKB	jo44>jo32	tr	50152	PA2TAB
10221715	OZ2LD	jo54>jo32	tr	50186	PA2TAB
10221721	OZ1SDB	jo44>jo32	tr	50141	PA2TAB
10221730	OZ5W/P	scatter		50160	GJ4ICD
11100932	OZ5IQ MS	>	I080		H G4UPS
11101038	OZ6ABA	59+20/59	JO57JD		S YO7VS
11101057	OZ5AGI	55/59	JO56DF >	KN14	S YO7VS
11101107	OZ1BUR	559/559	JO	>	KN14 C YO7VS
11101111	+OZ7IGY	559			B G4UPS
11101159	OZ2BGW	59/59	JN89 IVO		S G4UPS
11161230	OZ6VHF	589	PEAKS -1245		B G4UPS
11170823	+OZ6VHF	559	-1122 >	I080	B G4UPS
11170833	OZ2LD	59/59	JO54 >	I080	S G4UPS
11170833	OZ3SDL	59/59	JO65 >	I080	S G4UPS
11170836	OZ1IEP	59/59	JO65ER >	I080	S G4UPS
11170928	OZ5AGJ	59/59	JO56DF >	I080	S G4UPS
11170932	OZ3SDL	59/59	JO65 >	I080	S G4UPS

## ENGLAND

10010852	G7EXO	53 qsb tropo	50105	DL2DXA
10051115	G1RQM		50110	EA7AH
10051117	G7EDX		50110	EA7AH
10131854	G1URJ		50150	EA8AH
10141128	G0JHC	in51>io83	50110	CT1DYX
10151335	G7JCI		50110	EA7URE-5
10151342	G7EXO	IM67<>IO91	50110	EA8AH
10151435	G4UPS		50105	EA7KW-7
10151449	G6ION	59	50111	EA7KW-7
10151450	G1IOV	cq 59+	50115	EA7KW-7
10161725	G7IBP	in60ap > jo01mg	50110	CT4KQ
10201143	G0IUE/P		50125	CT4KQ
10211834	G4DCJ	io02	50160	CT1DNF
10222018	G4GIO		50125	EA8AH
10222021	G4FXW	io93ii>in60ap	50110	CT4KQ
10280850	G4UPS	IO80 MS > JO65		SM7AED
10280856	G3CCH	IO93 MS > JO65		SM7AED
10280915	G4UPS	579/579 IO80JV>	KN14 C	YO7VS
10300850	G4UPS	IO80 > JO65 MS		SM7AED
10310546	G3CCH	IO93 > JO65 MS		SM7AED
11011140	G3SYC	55/599 JO93IQ >	KN14 W	YO7VS
11070548	G3CCH	IO93 > JO65 MS		SM7AED
11070854+G4UPS		IO93 > JO65 2-3 MIN		SM7AED
11100828	G3CCH	IO93 > JO65 MS		SM7AED

## ESTONIA

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10141353 ES6SIX/B KO37 529>JN76 50073 OE6LOG
10141407 ES0SIX KO18 539 >JN76 50037 OE6LOG
10141449 ES0SIX 55 QSB > IO75 50037 GM7NZI
11101020 ES0SIX 599+ B 4GUPS

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## FINLAND

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10141032 OH1SIX in i092 50025 G4AFJ
11100952+OH1SIX 559-->579 B G4UPS
11100952+OH2BP 44 H G4UPS
11101007 OI3MF 579/579 KP20FR RAUNO C G4UPS
11101022 OH3NLP 59/59 JUKKA S G4UPS

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## FRANCE

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10011546 F5BYM 59 jo21 <> in94 50120 PE1PZS
10011548 F5OQJ 59 jo21 <> in96 50115 PE1PZS
10071413 F6FLV jn18at 50110 CS1NDX-5
10131834 F5BYM IN94 59inJN59 50110 DL7QY
10131840 F5BYM in94 59+20 jo65 50110 OK1DDO
10131848 F1USF JN23>IO92 50119 G0PQO
10151306 F5JLQ CQ CQ JO00 50210 F5JLQ
10151336 F1RG IM67<>IN99 50110 EA8AH
10161651 F5BYM 50115 S57A
10181127 F6ECS 50110 DL8NBE
10181137 F6HTJ JN12KQ>JO53FG 50109 DJ6TK
10181221 F1DVO jn19 cq east 50110 F5LJA
10181230 F1JGN JN19 CQ 50115 F5LJA
10181232 F1JGN JN19 CQ 50112 F5LJA
10201211 F6HTJ jn12 > io93 50149 G8GXP
10212009 F6HTJ 59 JN12 50110 G0JHC
10212023 F6HTJ JN12 > JO01 50120 G8RZA
10231147 F6FLV 5/7 50125 G7EXO
10291320 F6EAS 57 50135 SP4MPB
10291349 F6ECS JN12 > JO65 SM7AED
11170945 F WEAK > IO80 H G4UPS

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## GERMANY

10010853	DL2DXA	55 jo61	50105	G7EXO
10011702	DH2LAL	jo21 <> jo44	59000	PE1PZS
10011724	DJ6TK	in51>jo53	50110	CT1DYX
10011725	DL6TD	in51>jo31tv	50110	CT1DYX
10011728	DJ6TN	jo54bf	50110	CT1DYX
10050835	DL3AMA	JO51 > JO56	50180	O25AGJ
10071301	DL3AMA	jo51nd	50110	DL4ALI
10091542	DL4ALI	cq -> s	50115	DL4ALI
10110811	DL2DXA	5/4 io91/jo61	50110	G7EXO
10131836	DL4HWA		50120	EA8AH
10141130	DJ2GA		50117	G7EXO
10151153	DL4ALI	Pse your SQR	50000	O25AGJ
10201015	DK2EA	59+++	50125	EA8AH
10201040	DL4ZBC		50125	EA8AH
10201101	DJ1OJ	JN58SE->IN60AP	50110	CT4KQ
10201135	DL4ZBC		50125	CT4KQ
10201152	DF7VX	JO41JQ	50125	CT4KQ
10201246	DK2PU		50130	CT4KQ
10231631	DL2DXA	grv fm jo61vc	50110	DL3DXH
10232019	DL VIDEO	59->JO00	48240	G7PUV
11170827	DL1VAA	599/599 JO61WB	C	G4UPS
11170830	DL8PM	599/559	> IO80	C G4UPS
11170831	DK8KW	599/599 JO52BH>IO80	C	G4UPS
11170832	DF9PY	599/599 JO54AZ>IO80	C	G4UPS
11170922	DK7SP	559/549 JN48 > IO80	S	G4UPS
11170926	DL3AMA	559/559 JO51 > IO80	S	G4UPS



11301730 DL9USA 559/559 JO71 > IO80 C G4UPS  
 11301731 DF8AA 559/559 JO60XX>IO80 C G4UPS  
 12132148 DL8PM cq 50110 PE1PHQ

## GREECE

10141616 SV1SIX 559 in jo61 50040 DL3DXX  
 10141639 SV ce.phone S9 50130 DD0VF  
 10141709 SV1SIX nw fade out 50040 DD0VF  
 10151139 SV1SIX with qsb 50039 DL4ALI  
 10151222 SV1SIX still 5/2/9 50040 ON1IM  
 10151225 SV1SIX/B KM17UX>JO53FG 50040 DJ6TK  
 10200943 SV2CLL KN10LO 50145 PE1KLQ  
 10200948 SV2CLL kn10lo 50146 PE1PHQ  
 10201035 SV1SIX/B KM17 > JO22 50040 PB0ANX  
 10201053 SV2TX 55 in JN48 50120 DL8SET  
 10222146 SV1SIX/B 529>JN48 ! 50040 DL8SET  
 10301827 SV1SIX qsb > jo50jw 50040 DL4ALI

## IRELAND

10191515 EI/TV 51-AU > IO90 53757 G00FE

**ITALY:** SM7AED relays a note from IK0FTA that although (as printed in the October bulletin) their band now extends from 50.0-51.0; the 10W legal limit still stands (not 300W).

10011644 IZ4AIB cq nord europe 50155 IZ4AIB  
 10131240 IS ILLEGAL! 50000 DC/PE1NLU  
 10131754 IA5/I2ADN 50157 SQ9ACE  
 10131804 IA5/I2ADN 529 JN44 50157 G4HBA  
 10131925 IK5RLP LOUD 50153 G3FPQ  
 10131926 IK5RLP JN52 59 50153 GW7SMV  
 10131926 IK5RLP JN54 JO01 57 50155 G8RZA  
 10132007 IK0FTA 59 JN61 50152 GW7SMV  
 10132017 IK0BAL 57 JN62->IO80 50160 G4HBA  
 10132023 IK0FTA calling cq 50152 GB7UDX  
 10151315 I7CSB from JN71 50114 DJ6TK  
 10151319 I7CSB JN71 >JO56 59 50112 OZ5AGJ  
 10151333 IK8DYD cq cq 50110 OZ5AGJ  
 10151351 IK8AUC JN71 cq cq 50157 OZ5AGJ  
 10161715 IK0FTA WKG EH1TA 50160 CT4KQ  
 10181239 IK5RLP 50154 DK8KW  
 10191359 I5SDG 50110 EA8AH  
 10200830 IK2GSO 53 - im67 50150 EA7KW-7  
 10200831 I2EGD jn55 53 50155 EA7KW-7  
 10200831 I2WSG IM67> <JN45 50125 EA8AH  
 10200838 IV3NDC 50125 EA8AH  
 10200931 IK4CNQ 59++ 50126 EA8AH  
 10200933 IK8MKK JN71 50105 DL5BAC  
 10200947 IK0NOJ 50152 DL8NBE  
 10200958 IK6TIJ 54 from JN72AJ 50131 G4FVP  
 10200958 IK7XGF 50201 PE1PHQ  
 10201002 I6ADU 59++ JN72FG 50160 ON7YY  
 10201003 IK5JWQ v.weak CW CQ 50110 G4VPD  
 10201004 IK0BAL 50166 PE1PHQ  
 10201005 I6ABU 59++ jn72>io92 50159 G4VPD  
 10201006 I6ADU JN72FG>JO01 59 50160 G1UZD  
 10201008+I4DCIL -1125 H HB9AMZ  
 10201009 IK0BAL 59++ jn62>io92 50164 G4VPD  
 10201010 IK0NOJ 59 on wire !! 50153 PA3GOE  
 10201013 IK0NOJ jn61>io92 50152 G4VPD  
 10201017 IK6TIJ 59 jn72aj 50131 ON1DDR  
 10201018 IOAKP cw same freq 50194 G4VPD  
 10201018 IW0BET jn61>io91 50194 G4VPD  
 10201033 IK4ADE jn54oe 50129 PE1IWT  
 10201038 IK2GSO 59+++ 50170 EA8AH  
 10201041 IOVHL jn62ir 50158 ON1DDR  
 10201043 IZ4AIB JN54 > JO56 50195 OZ5AGJ  
 10201046 IZ4AIB jn54xj 50194 ON1DDR  
 10201058 IW8DRG jn70hr 50160 ON1DDR  
 10201101 IK0BAL jn62fb 50160 ON1DDR  
 10201102 IK7FGE JN71>JN48 cw 50158 DL8SET  
 10201108 I7CSB 50115 DL8FCK  
 10201110 IW8DRG 50150 DL8FCK  
 10201114 I5MXX jn53cu 50134 ON1DDR  
 10201115 IV3LNQ jn65vo 50138 ON1DDR  
 10201121 IN3KCV JN56 rare! 50154 OZ3SDL  
 10201125 I5MXX jn53 > io92 50135 G4AFJ  
 10201127 IK0BAL jn62 > io92 50160 G4AFJ  
 10201131 IK6TIJ JN72aj 50130 HB9LBC  
 10201132 IK6TIJ JN72 57inJN59 50131 DL7QY  
 10201134 IW8DRG jn70hr><jo40 50114 DL2FDL

10201157 IK0SME luca,jn61lb 50153 DL2FDL  
 10201206 IK7XGF jn71qm > jo40 50125 DL2FDL  
 10201217 IK0BAL jn62 59 > jo42 50160 DL9OBD  
 10201255 I3LLH 59 JN65RT>JN76RT 50110 OE6LOG  
 10201258 IOJX cq... 50110 DL8SET  
 10201315 IK0BAL sri freq 50159 GOWRE  
 10201321 I6ADU 5/9+ >io83 50162 GOWRE  
 10201326 IW0BET 50190 G0JHC  
 10201329 IK5JWQ 59 IN IO75 50115 GM7NZI  
 10201332 IK0BAL 58 IN IO75 50160 GM7NZI  
 10201337 I6ADU 57 > IO75 50163 GM7NZI  
 10201337 IK5JWQ 50115 G7GUO  
 10211833 IO92UA 50160 CT1EKF  
 10211841 IK2DUV JN45 50160 CT1DNF  
 10221236 I6ADU 57 JN72 50150 GW7SMV  
 10221244 IK7XGF/P 50113 G6YIN  
 10221318 IK7XGF cq cq jn71 50115 G6YIN  
 10222241 I VIDEO 9+30 > IO93 47872 G6YIN  
 10291153 IK0FTA JN61 > JO65 SM7AED  
 10291207 IK4CDJ JN64 > JO65 SM7AED  
 10291214 IK6TIJ JN72 > JO65 SM7AED  
 10291216 I2WSG 59 50120 SP4MPB  
 10291229 IK2GSO cq dx 50130 SP4MPB  
 10291240 I5MXX JN53 > JO65 SM7AED  
 10291301 I2ADN cq 59 50134 SP4MPB  
 11101100 IK6TIJ JN71 > JO65 SM7AED  
 11101104 IV3EZJ JN65 > JO65 SM7AED  
 11101117 IK0BAL JN62 > JO65 SM7AED  
 11101118 IOJX JN61 > JO65 SM7AED  
 11101122 I3QDK JN65 > JO65 SM7AED  
 11101124 IK0FTA JN61 > JO65 SM7AED  
 11101126 IK2GWH JN45 > JO65 SM7AED  
 11101129 I2ADN JN45 > JO65 SM7AED  
 11101131 IN3KCV JN56 > JO65 SM7AED  
 11101152 I5MXX > JO65 SM7AED  
 11161108 IK0FTA 55 >1113 H G4UPS  
 11250943 I2WSG 579/559 JN45 > IO80 C G4UPS  
 12132113 IOJX 50110 DL9USA-1  
 12132118 IW5BML jn52 50110 PA3BFM  
 12132129 IOJX 50110 OE3KLU  
 12132131 IOJX 559>JN48 50111 DL8SET  
 12132328 IW5BML 50109 SM7CMV-9  
 12132329 IW5BML 58 ms 50110 G3OIL  
 12140002 I1DDS 50110 G1SWH

## JERSEY

10221723 GJ4ICD clg cq scatter 50185 G7EXO

## LIECHTENSTEIN

10291232 HB0LL 55 50110 SP4MPB

## LUXEMBOURG

10131921 LX2RS clg cq 50115 EA7KW-7  
 10151326 LX0SIX EA7KW-7  
 10201245 LX1SI JN39CQ>IN60AP 50130 CT4KQ  
 10232135 LX0SIX bcn 559 50022 PA0RDY

## MACEDONIA

10200933 Z32? kn02 50120 G7EXO  
 10200939 Z32MA KN02RA>JO01 56 50122 G1UZD  
 10201008 Z32BU 50125 ON7YY  
 10201008+Z32BU -1125 H HB9AMZ  
 10201054 Z32BU KN01 59inJN59 50125 DL7QY  
 10201154 Z32MA KN02 55>JO31nf H 50122 DL8EBW  
 10201246 Z32BU KN01RX 50116 OE5HDM

## MALTA

10031611 9H1CG no TEP at pres 50110 PA3BFM  
 10031723 9H1SIX JM75-JN67 559 50024 OE2UKL  
 10141129 9H1JN Maureen JM75 50114 DJ6TK  
 10141134 9H1AW JM75 >JO53FG 50114 DJ6TK  
 10151117 9H1CG JM75 CW 50109 DJ6TK  
 10151136 9H1GB in qso 50115 DL4ALI  
 10151142 9H1CG with sp2... 50115 DL4ALI  
 10151151 9H5ET 5/7 50117 ON1IM  
 10151200 9H5ET JM75CU>JO53FG 50119 DJ6TK  
 10151252 9H1AW 50110 F5LJA  
 10151253 9H1AW 55 50110 GW7SMV  
 10151303 9H5ET 55 50110 GW7SMV  
 10151323 9H1AW via GW3LDH, 599 50110 DL1OY  
 10151358 9H1AW jm75 > jo23se 50110 PE1PKR  
 10151609 9H1CG JM75FW>JN18 59 50115 F6FLV>



10161555 9H5ET 50125 G7EXO  
 10161649 9H1SIX/B 519 50025 ON9CFB  
 10212039 9H1AW JM75>IO92 50112 G0PQO  
 10212045 9H1AW 59 jn0810jm75 50111 F1LLS  
 10212053 9H1AW 57 >IO83 QSB 50112 G0JHC  
 10212112 9H1AW jm75>io91 59+ 50112 G4RGK  
 10212120 9H1AW Alan GW3LDH 50112 G0OFE  
 10212128 9H1SIX/B JM75>JN18 559 50024 F6FLV  
 10231036 9H5ET 59/59 JM75GV > KN14 S YO7VS  
 10231132 9H5ET 5/0 50110 G7EXO  
 10231202 9H5ET qsy from 110 50125 G7EXO  
 10310952 9H1SIX/B 529 in jo50jw 50023 DL4ALI

## MOLDAVIA

10141333 ER5WU from KN45CW 50125 DJ6TK  
 10141338 ER5GB kn45 > JO22 50126 PB0ANX  
 10141350 ER5GB 599+ in JO61 50103 DD0VF

## NETHERLANDS

10161700 PA3BFM in51>jo22 50110 CT1DYX  
 10161701 PA3GST in51>jo21 50110 CT1DYX  
 10161701 PE1PZS in51>jo21 50110 CT1DYX  
 10181326 PE1FZA cq 55 50000 EA7KW-7  
 10211836 PA0RDY jo22 50160 CT1EKF  
 10211841 PA3GSM JO21 50160 CT1DNF  
 11170828 PA0RDY 599/579 JO22 > IO80 C G4UPS

## NORWAY

10221840 LA4LN jo59 in cw 50153 OZ8ABE  
 10221843 LA1BN fading JN37sm 50152 HB9DFG  
 10232307 LA7SIX 539 -> IO94 50051 G4IFX  
 10242041 LA7SIX jp99 559 io85 50051 GM0TQK

## POLAND

10030844 SP7?? +jamming? 50110 G7EXO  
 10141414 SP5QWB KO02NF 59>JN76 50110 OE6LOG  
 10200903 SP video s9+ > IO94 50000 G4FVP  
 10201042 SP9SOI 50125 EA8AH  
 10201045 SP9QZJ 50125 EA8AH  
 10212121 SP2NJE Es again ! 50110 PA0RDY  
 10230930 SP9HWY 5/1 50110 G7EXO  
 10291323 SP9UPK 50125 G7EXO  
 11101048 SP9QZT JO90 > JO65 SM7AED  
 11101108 SP5CCC 579/589 KO02NF TOM C G4UPS  
 11101111+SP9HWY 55, SP9QXT 55 H G4UPS  
 11101111+SP9SOI 579 H G4UPS  
 11101111+SR6SIX 559 B G4UPS  
 11101133 SP9MRK 59/59 JO90NH RICHARDS G4UPS  
 11101137 SP9GPW 59/51 JO90NU S G4UPS  
 11101145 SQ9CXT 59/57 JO90HD MATEO S G4UPS  
 11101150 SP6TRQ 55, SP9BIG 57 H G4UPS  
 11101150 SP9QZT 59/59 JO90FB S G4UPS  
 11170942 SP2NJE 55 > IO80 H G4UPS  
 11170956 SP2HNF 599/599 JO94FK>IO80 C G4UPS  
 11180912 SP2NJE 57/57 JO92 > IO80 S G4UPS  
 11301706 SP2NJE 59/59 JO92 > IO80 S G4UPS  
 11301706+SP6BTI 55 > IO80 H G4UPS  
 11301738 SQ9CXT 55 > IO80 H G4UPS

## PORTUGAL

10011605 CT0WW right grg!! 50030 PE1LAU  
 10051125 CT0WW 579 50030 PA3BFM  
 10051326 CT0WW in&out > IO94 50030 G4IFX  
 10131846 CT0WW 559 in JO61 50030 DD0VF-7  
 10131846 CT1WW IN61 59+5DB>JO65 50030 OK1DDO  
 10131859 CT0WW/B 519 > JN76RT 50030 OE6LOG  
 10131902 CT0WW/B 599 in jn48 50030 DK7SP  
 10131938 CT0WW/B IN61>JO56 559 50030 OZ5AGJ  
 10132022 CT0WW 559 in jo90 50030 SQ9ACE  
 10141127 CT1DYX 59 50110 G0JHC  
 10141154 CT0WW now 59 > IO83 50030 G0JHC  
 10141155 CT1EKF 50110 G0JHC  
 10141201 CT0WW 58 QSB > IO75 50030 GM7NZI  
 10141202 CT1EKF 50130 G0VTL  
 10141231 CT/EA muf 90mhz>io93 50000 G6YIN  
 10141232 CT0WW 5/9+40 >io91pg 50130 G7EXO  
 10141353 CT0WW/B 59+ QSB > IO75 50030 GM7NZI  
 10161637 CT0WW/B 599>JN48 50030 DL8SET  
 10161657 CT0WW 425 > jo21jo 50030 PE1MZS  
 10171646 CT0WW 55 to nil in lmin 50030 PE1MZS  
 10191340 CT1DIN IM67> <IN60 50110 EA8AH  
 10201124 CT0WW 579 jo40>in61ge 50030 DL2FDL

10201145 CT4KQ IN60>JO31 59+ 50125 DL1EAP  
 10201148 CT0WW/B 599 in jo40 50030 DL2FDL  
 10201202 CT0WW IN61 579 <JO31 50030 DL8EBW  
 10201848 CT0WW 55 qsb > jo33 50030 PE1LAU  
 10211747 CT1HB in52 59 > io92 50109 G4VPD  
 10211755 CT0WW 57 io92 50030 G4VPD  
 10211756 CT1HB nw in50xs 59+ 50113 G4VPD  
 10211803 CT0WW 539 50030 GI6ATZ  
 10211805 CT1HB 50150 G4OJH  
 10211807 CT0WW/B 559 IN JO01 50030 G8RZA  
 10211816 CT1HB HRD 55 > JO01 50150 G8RZA  
 10211831 CT1HB 55 in jo22 50150 PE1LIF  
 10211840 CT1HB IN50 >JO01 59+ 50150 G8RZA  
 10211844 CT1DNF IN50>JO01 59++ 50160 G8RZA  
 10211920 CT0WW 5/5 in61ge 50029 PA0PAU  
 10221946 CT0WW/B Es also 50030 G0PQO  
 10231144 CT0WW 539 > IO83 50030 G0JHC  
 10291233 CT0WW 539 JO21 50030 PE1PZS  
 10311113 CT0WW/B 59+ IN IO75 50030 GM7NZI  
 11170945 CT1 WEAK > IO80 H G4UPS

## ROMANIA

10212346 YO7KAJ jo65 > kn14 50115 OZ1IEP  
 10141131 YO7KAJ KN14VH > JO5 50110 DJ6TK  
 10141137 YO7VJ KN14VG > JO53FG 50109 DJ6TK  
 10141201 YO 50116 G7EXO  
 10141220 YO7VJ kn14 50115 G7EXO  
 10141252 YO7VS kn14>io92 50100 G4AFJ  
 10141259 YO7VS KN14 > JO56 50125 OZ5AGJ  
 10141304 YO7VJ io92>kn14 50109 G4AFJ  
 10141332 YO7VS 5-9 in jo31 50115 PD0HCV  
 10141416 YO7VS kn14vh 50115 PE1PKR  
 10141419 YO7VJ kn14vg 50120 PE1PKR  
 10141531 YO Radiostation S5 70600 DL8SER  
 10151157 YO7VJ kn14va 50123 DL4ALI  
 10151206 YO7VS kn14vh 50110 DL4ALI  
 10151259 YO7VJ 5/9 KN14VG 50110 ON1IM  
 10151321 YO7VS by CW 50100 DJ6TK  
 10151325 YO7VS 50110 DL1OY  
 10151334 YO7VS Dietmar KN14 50128 DJ6TK  
 10151357 YO7VS kn14vh>jo23se 50130 PE1PKR  
 10200840 YO7VS KN14>JO22 50110 PA3BFM  
 10200918 YO7VG 5/9 kn14 50130 G7EXO  
 10200930+YO4BZC, YO7VJ, YO7VS H HB9AMZ  
 10200937 YO7VJ CQ 50130 DL3DJ  
 10200937 YO7VJ KN14 Emil 59+ 50130 GJ3DVC  
 10200943 YO7VS kn14vs 50101 DL8NBE  
 10200958 YO4BZC KN45>JN48 50116 DL8SET  
 10201003 YO4DCF bad audio cw 50110 DL8SET  
 10201008+YO4DCF HB9AMZ  
 10201026 YO2VS jo32>kn14 50157 PE1IWT  
 10201033 YO7VS 59+10>jo21jo 50157 PE1MZS  
 10201119 YO7VS kn14<>jo40 50100 DL2FDL  
 10201124 YO7VS kn14vg > io92ho 50120 G4AFJ  
 10201125 YO7VJ kn14vg 59++++ 50120 ON1DDR  
 10201139 YO7VJ 57 IN LONDON 50120 G0PZA  
 10201235 YO7VS 5/7 in KN14VG 50120 OE5HDM  
 10201242 YO7VS Dietmar 50120 OE5HDM

## RUSSIAN FEDERATION (Europe)

10141533 UA TV/audio S3 56250 DL8SER  
 10191040 UA Moscow inband 49747 PA3BFM  
 12132129 UB4STW 50110 OE3KLU

## SCOTLAND

10081807 GB3LER 54 AU io94 50064 G4FVP  
 10151326 GB3MCB/B gb3bux gb3nhq 50043 EA7KW-7  
 10191634 GB3LER 41A -> IO94 50064 G4IFX  
 10221837 GB3LER 53 AU > IO94 50064 G4IFX  
 10301600 GB3LER IP90 > JO65 AU B SM7AED  
 11170953 GB3LER 599 > IO80 B G4UPS

## SERBIA

10051009 YT1AU 50120 G3FPQ  
 10141059 YT1AU in io92 50120 G4AFJ  
 10141107 YT1AU +oe 50115 G7EXO  
 10141324 4N1SIX 55 kn04 io93 50046 G6YIN  
 10141413 YU1QC from KN04 50142 DJ6TK  
 10141433 YU1ABA CQ by CW 50106 DJ6TK  
 10141443 4N1SIX beacon 5/9 50046 PA0PAU  
 10141446 4N1SIX/B 559->51 KN04 50046 ON1IM  
 10141518 YU1ABA Clg CQ 50122 SM7AED



10151223	4N1SIX/B	KN0400	50047	DJ6TK
10151404	4N1SIX	beacon 5-9	50046	PE1PKR
10180927	4N1SIX	559-599 > JO51	50046	DL3AMA
10181219	YU1ABA	cq cw	50119	F5LJA
10181227	YU1ABA	call cq/qsb	50110	G7EXO
10181240	4N1SIX	KN04 59 > JO10	50046	F5LJA
10200954	YU1ABA		50102	OZ8Q
10200955	4N1SIX/B	579>JN48	50047	DL8SET
10201007	YU1SIX	5/5 fsk kn03kn	50087	PA0PAU
10201008	YU1EU, YU1ABA			HB9AMZ
10201122	4N1SIX/B	kn0400 599	50047	DL2FDL
10201129	4N1SIX	bcn	50047	G4AFJ
10201130	YU1SIX	bcn	50088	G4AFJ
10201156	4N1SIX/B	579 > jn48	50046	DK7SP
10201157	YU1EU	KN04DW 559	50105	DL3YT
10201200	4N1SIX	KN0400 559 JN48	50048	DL3YT
10201245	YU7EU	KN04	50125	OE5HDM
10201349	4N1SIX/B	55 QSB IO75	50004	GM7NZI
10221958	4N1SIX	in io92	50047	G4AFJ
10222005	YU1EU	KN04>JO22	50110	PA3BFM
10231048	4N1SIX	HBR now not blo	50047	G7EXO
10291156	4N1SIX	KN04 > JO65		B SM7AED
10291156	YU1SIX	KN03 > JO65		B SM7AED
10291221	4N1SIX	59 IO83	50046	G0JHC
10300712	4N1SIX	5/5 in io91	50046	G7EXO
12132126	YT1AU	MS >JN48	50110	DL8SET

## SICILY

10151214	IT9NDW	jn68	50160	DL4ALI
10151218	IT9NDW	JM68OD>JO53FG	50160	DJ6TK
12132016	IT9KSS	CQ MS >JN48	50110	DL8SET

## SLOVAKIA

10200930	OM3OM		H	HB9AMZ
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## SLOVENIA

10131837	S59F	59 JN65->IO80	50130	G4HBA
10141107	S57NBT	>io92	50120	G4AFJ
10141130	S57IN		50117	G7EXO
10141405	S59D	JN75 > JO56	50122	OZ5AGJ
10191338	S59F		50110	EA8AH
10191341	S57C	jn76 - im67	50120	EA7KW-7
10191342	S57C	IM67> <JN76	50110	EA8AH
10200947	S59F	kn65	50121	DL8NBE
10200950	S52R		50157	PE1PHQ
10200952	S59F		50122	PE1PHQ
10200953	S52R	jn75	50167	GJ3DVC
10201048	S52R		50154	PE1IWT
11101055	S52W	JN75 > JO65		SM7AED
11101234	S51MQ	59/57 JN75NT	S	G4UPS
11101238	S52W	59/59 JN75ON	S	G4UPS
11170836	S59F	59/59 JN65 > IO80	S	G4UPS

## SPAIN

10011531	EH1TA	in53 >jo3ldg	50110	DK3RV
10011615	EH1TA	still QRV SSB	50110	DJ6TK
10031416	EH1TA,1422	EH1BLA IN53	50110	CT1EKF
10051101	EH7AJ	59++	50110	G0JHC
10051127	EH1EH	IN82PO > JO53FG	50112	DJ6TK
10131847	EH7AH	IM76 in JN48	50120	DL2GBT
10131849	EH7AH	vy weak	50120	G0PQO
10131856	EH1BLA	IN53UM 55>JN76	50120	OE6LOG
10131903	EH4EHI	IM68 > JN48	50116	DL2GBT
10131919	EH1BLA	in53	50120	DK7SP
10131929	EH3JF	52 -> IO80	50112	G4HBA
10131934	EH3CUU	JN12-JN67 59	50105	OE2UKL
10141137	EH1DYV,	1148 EH1DAV	50110	G0JHC
10141210	EH1DAV	in53	50109	G0VTL
10141215	EH1AJW	CQ 57 QSB	50115	GM7NZI
10141234	EH1DAV	noe hr	50120	G6YIN
10141352	EH1TA	59 > IO75	50110	GM7NZI
10141356	EH1TA	IN53 < > IO84	50109	G3BJD
10141424	EH1TA	in53 io93	50110	G6YIN
10161700	EH1TA	with S57A	50110	DL8SET
10161718	EH1TA	55 jo21jo>in53	50110	PE1MZS
10200833	EH7KW	CW cq	50104	EA7URE-5
10201144	EH1EH	in82po	50117	DL2FDL
10201206	EH7AJ	im87 > io93	50120	G8GXP
10201210	EH4EHI	IM68 59>JO31nf	50118	DL8EBW
10201224	EH1CUU	JN12>IO92 CW	50104	G4VPD
10201235	EH4EHI	IM68TV RARE	50117	PA3BFM
10201239	EH4EHI	IM68TV>IO92	50117	G4VPD

10201300	EH4EHI	IM68 > JO41	50117	DK2PH
10201333	EH4EHI	IM68 > IO83	50117	G0JHC
10201345	EH1EH		50110	DK2PH
10211747	EH1AH	clg cq	50110	G4VPD
10211809	EH7AH	hrd 55	50125	GI6ATZ
10211824	EH1TA	59 in53 > jo22	50110	PE1PFW
10211825	EH7AH	IM67 > JO01 59	50125	G8RZA
10211829	EH4EHI	IM68>JO01 59+	50115	G8RZA
10211830	EH1TA 53	IN53SI-JO00AS	50110	G7PUV
10211832	EH4EHI 59	IM68TV>JO00	50113	G7PUV
10211834	EH1TA	IN53 > JO01 59	50117	G8RZA
10211837	EH1TA		50115	PE1LIF
10211902	EH4EHI	5/7 im68tv>jo22	50112	PA0PAU
10211903	EH1TA	IM53>JN48 59+401	50115	DL2GBT
10211909	EH7CD	IM86 > JO41	50121	DK2PH
10211913	EH4EHI	59 IM68-IO80	50113	G4HBA
10211920	EH7AH	59 IN JN47	50125	OE9PTI
10211923	EH7AH	57 im67>io92	50125	G4VPD
10211925	EH1EH	in82 >io92	50112	G4VPD
10211935	EH1EH	IN82 > JO01	50112	G8RZA
10211957	EH7AH	IM67-JN67 59	50125	OE2UKL
10212010	EH1TA	in53>jo32	50117	PA2TAB
10212011	EH1EH	IN82 cq	50112	OZ5AGJ

## SWEDEN

10141048	SM6VKC	in io92	50115	G4AFJ
10141052	SK3SIX	59 io91pg /jp71	50070	G7EXO
10141323	SM7AED	JO65 Arne	50125	S59D
10141356	SM7AED	JO65 59>JN76RT	50156	OE6LOG
10200934	SM3EQY	57 ->IO94	50135	G4FVP
10221833	SK0UX		50156	OZ8ABE
11070855	SM7AED	599/599		C G4UPS
11100944	SM3JGG	55 WKG SP		H G4UPS
11100952	SK3SIX	339 -->579		B G4UPS
11100952+SM3VEE	59 WK 1013	JP81		H G4UPS
11100955	SM3JGG	57/57-->59/59 JP71		S G4UPS
11101013+SM4DHN	59			G4UPS
11101030	SM1BSA	59/59 JO97DP ARNE		S G4UPS
11101035	SM5TNL	59/59 JO89WU LARS		S G4UPS
11101039	SM7HQD	59/59 JO87HS		S G4UPS
11101055	SM7WDS	59/59 JO66WO GEORGE		S G4UPS
11101055+SM0KCR	579			H G4UPS
11101111	SM7AED	44 WEAK		H G4UPS
11150850	SM7AED	579/559		C G4UPS
11161225	SK3SIX	569		B G4UPS
11161225	SM3EQY	59/59 JP81		S G4UPS
11170902	SM4DHN	55	> IO80	H G4UPS
11190851	SM7AED	569	> IO80	G4UPS
11200850	SM7AED	559/449	> IO80	C G4UPS
11210848	SM7AED	559/449	> IO80	C G4UPS
11250850	SM7AED	559/339	> IO80	C G4UPS
11260848	SM7AED	559/449 MS	> IO80	C G4UPS
11290850	SM7AED	559/339	> IO80	C G4UPS
12132014	SM6WDS	59		50110 G4HBA
12132129	SM7WBD			50110 OE3KLU

## SWITZERLAND

10141124	HB9MFD	58	50110	G0JHC
10141154	HB9MFD	57 QSB > IO75	50110	GM7NZI
10231159	HB9SS?	qsb	50110	G7EXO
10231653	HB9RDE	jn37>io92	59000	G7UBA

## VATICAN

10141324	HV3SJ/B	JN61>JO56 559	50004	OZ5AGJ
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## WALES

10222010	GW0VMW		50125	EA8AH
12132115	GW5BML	MS	50110	OE3KLU
12132129	GW5BML		50110	OE3KLU

# Reports of North America

This month's TV and FM DX reports via Es and MS were submitted by Pat Dyer, WA5IYX, San Antonio, TX; Mike Cherry, VE7SKA, Salt Spring Is., BC; William Eckberg, Dixon, IL; Danny Oglethorpe, Shreveport, LA; and David Pomeroy, Topeka, KS.

## BELIZE

12140049	V3?	Belize	88.9 F	WA5IYX
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## CANADA

11160050 CKPR 2 ON TBT 2 & 5 1130 T Oglethorpe  
 11211630+VE6ARC, VE6EMU -1900 B K6QXY  
 11211630+VE7 -1900 K6QXY  
 12082130 VE6 (WEAK) H K6QXY  
 12100255 VE6NA QTF 045 DO20 50.125 C VE7SKA  
 12100751 VE4VHF strong AU B VE6MK  
 12100751 VE6EMU strong AU 50.041 B VE6MK  
 12130000+VE9AA > EM97 < 0345 H KB8TEJ

## COSTA RICA

12112300 TI2NA 59+ H CO2OJ  
 12112300 TI4JHK 59+ H CO2OJ  
 12112323+TI2JVE > DM26 -0010 W K7CA  
 12112323+TI2NA > DM26 -0010 W K7CA  
 12112323+TI4JHQ > DM26 -0010 W K7CA  
 12112354 TI4JHQ 51 TEP/ES> GG54 S PY5CC

## CUBA

11290155 CUBA 2,4,5 Baseball T Oglethorpe  
 12102311 CO2OJ > EN71 W9FTI

## DOMINICAN REPUBLIC

12112329 HI0VHF/b 519 TEP > GG54 C PY5CC

## GRENADA

11040005 J3EOC/b 519 TEP 50.056 B PY5CC  
 11060016 J3EOC/b 519 TEP 50.056 B PY5CC  
 11172345 J3EOC/b 419 TEP 50.056 B PY5CC  
 11200025 J3EOC/b 519 TEP 50.056 B PY5CC  
 11202334 J3EOC/b 519 TEP 50.056 B PY5CC  
 11210003 J3EOC/b 539 TEP 50.056 B PY5CC  
 11222321 J3EOC/b 539 TEP 50.056 B PY5CC  
 11230005 J3EOC/b 529 TEP 50.056 B PY5CC  
 12112331 J3EOC/b 549 TEP > GG54 C PY5CC

## GUATEMALA

12150101 TG9SO weak EK44 > DM59 S W5UWB

## MEXICO

10240002 unID 2,3,4,5 Mexico T Oglethorpe  
 10250005 unID 2 Mexico TV Azteca T Oglethorpe  
 11012255 unIDs 2,4 XEW,TV7 T Oglethorpe  
 11012338 XHBS 4 SI/SO XEW T Oglethorpe  
 11012345 unID 2 SI XHQ-3 relay T Oglethorpe  
 11020002 unIDs 2,4 XEW,XHGC-5 T Oglethorpe  
 11041510 unID 2 XEW T Oglethorpe  
 11041545 unID 3 Mexico, floating T Oglethorpe  
 11041620 unID 2 XHQ-3 T Oglethorpe  
 11041705 XHBSt 4 T Oglethorpe  
 11052330 unID 2 Mexico T Oglethorpe  
 11052338 XHBS 4 SI/SO XEW T Oglethorpe  
 11171850 unIDs 2,4 Mexico T Oglethorpe  
 11210045 unIDs 2,4 Mexico T Oglethorpe  
 11210215 XHBS 4 SI/SO ID 0236 T Oglethorpe  
 11290310 unIDs 2,4 XEW,XHGC-5 etc T Oglethorpe  
 11300000 XE2/KC5FMT S5 DL94 > DM26 H N7CA  
 12091743 XH? Mexico 90.3 F WA5IYX  
 12092132 XH? 2 SO Ciudad Obregon T WA5IYX  
 12092217 XE1KK 50.125 B WA5IYX  
 12092220 XH? Mexico 92.3 F WA5IYX  
 12100005 XHBC 3 BCN Mexicali T WA5IYX  
 12100012 XH? BCN Tijuana 92.5 F WA5IYX  
 12100014 XH? BCN Tijuana 91.1 F WA5IYX  
 12100131 XE2UZL > EL09QL B WA5IYX  
 12100145 XE2OR DL98 > EM48 WA0KBZ  
 12100205 XE1KK 559 EK09 > EM48>0307 B WA0KBZ  
 12100351 XH? BCN Tijuana 92.5 F WA5IYX  
 12100355 XE2UZL 559-579 DM10 > EM48 WA0KBZ  
 12100400 XH? BCN Mexicali104.1 F WA5IYX  
 12100415 XH? BCN Tijuana 90.3 F WA5IYX  
 12100428 XH? BCN Tijuana 91.1 F WA5IYX  
 12110128 XE1AVM, XE2OR -0500 K6QXY  
 12110128+XE1KK -0500 B K6QXY  
 12110128+XE2UZL -0500 B K6QXY  
 12110XXX XE2OR DL98 > DM26 50 W K7CA  
 12110XXX XE2OR DL98 > DM26 FAI 144 W K7CA  
 12111845 XE1AVM DK39 >EL09QL 50.125 WA5IYX  
 12112042 XE1KK > EL09QL B WA5IYX  
 12112135 XH?? 3 Puebla T WA5IYX  
 12112152 XH?? 2 Acapulco T WA5IYX

12112242 XE2UZL > EL09QL B WA5IYX  
 12112327 XHHNN? 2 T WA5IYX  
 12120010 XE1KK/b 519 TEP/ES> GG54 C PY5CC  
 12120110 XE1KK > EL09QL B WA5IYX  
 12120128 XH? Toluca 92.5 F WA5IYX  
 12120129 XH? Acapulco 93.7 F WA5IYX  
 12120129 XH? Acapulco 97.7 F WA5IYX  
 12120131 XH? Toluca? 93.3 F WA5IYX  
 12120135 XH? JA 96.7 F WA5IYX  
 12120157 XH? MI Morelia 91.5 F WA5IYX  
 12120157 XH? Zihuatenejo 90.5 F WA5IYX  
 12120200 XE1 > DM26 K7CA  
 12120244 XH? P.Vallarta? 90.3 F WA5IYX  
 12121837 XE2UZL -2000 B K6QXY  
 12122020 XE1AVM DK79>DM43BL 50.125 S W7RV  
 12122020 XE1KK EK09>DM43BL 50.0226 B W7RV  
 12150000 unID XE TV -0130 T WA5IYX  
 12150101 XE1KK 50022.6 B W7RV  
 12150115 unID XE FM MUF 93.7 F WA5IYX  
 12150211 XE1KK 50022.5 B W6XI  
 12150215 XE1KK FOR AN HR 50125.0 B NOLL  
 12160110 XH? BCN Tijuana 92.5 F WA5IYX  
 12160115 XH? BCN Tijuana 91.1 F WA5IYX  
 12160117 XH? BCN Mexicali104.1 F WA5IYX  
 12160123 XHBC 3 Mexicali T WA5IYX  
 12160130 XH? BCN Tecate 95.3 F WA5IYX  
 12160142 XH? BCN Tijuana 90.3 F WA5IYX  
 12160142 XH? SON SLR Col.107.9 F WA5IYX  
 12160300 XE1KK -0400 B K6QXY  
 12160300 XE2UZL -0400 B K6QXY  
 12162310 XH/TG? -2350 MUF to 98.5 F WA5IYX  
 12170346 XE2HWP -0500 B K6QXY  
 12190340 XE2HWP -0430 B K6QXY  
 12191710 XE2HWP, XE2UZL -2100 B K6QXY  
 12201729 XHBC 3 BCM Mexicali T WA5IYX  
 12230103+XE2UZL > CN88 B VE7SKA  
 12230220+XE2UZL -0345 50.028 B WX7R  
 12230317 XE2DN DM22 > CN88 50.140 S VE7SKA

## PANAMA

10181630 HPT 2 TV National Panama T Oglethorpe

## ST KITTS & NEVIS

11040005 V44K/b 529 TEP 50.054 B PY5CC  
 11060016 V44K/b 519 TEP 50.054 B PY5CC  
 11172345 V44K/b 539 TEP 50.054 B PY5CC  
 11200025 V44K/b 519 TEP 50.054 B PY5CC  
 11202334 V44K/b 519 TEP 50.054 B PY5CC  
 11210004 V44K/b 539 TEP 50.054 B PY5CC  
 11222321 V44K/b 549 TEP 50.054 B PY5CC  
 11230006 V44K/b 539 TEP 50.054 B PY5CC  
 11262337 V44K 51 TEP 50.055 B LW5EJU  
 12112330 V44K/b 559 TEP > GG54 B PY5CC

## ST LUCIA

11210001 J68AS 59+ TEP 50.110 S PY5CC  
 11210010 J68AS 51 FK94 SCOTT .110 H LW5EJU TE  
 11210019 J68AS 599 TEP 50.110 C PY5CC  
 11262333 J68AS 55 SCOTT 50.110 H LW5EJU TE  
 11270023 J68AS 57 FK94 50.112 S LW5EJU TE  
 11280202 J68AS 51 ST.LUCIA 50.110 S LW5EJU TE

## UNITED STATES, W1

11212230+W1 FN35, FN53, FN42 > EN61 W NA9N  
 11212230+W1 FN54, FN66, FN63, FN65 W NA9N  
 11212325 WLBZ 2 ME > IL 1030 T ECKBERG  
 11212330 WCAX 3 VT > IL 821 T ECKBERG  
 11220000 WFSB 3 CT > IL 842 T ECKBERG  
 12221230+W1 FN32 >EL96 -1335 WB2QLP/4

## UNITED STATES, W2

10201600 WGRZ 2 NY 1091 T Oglethorpe  
 11220100 WKTU 2 NY > IL 714 T ECKBERG  
 11220230-N2CEI NJ EN20 > DM59 H W0MTK  
 12102311 W2VDI > EN71 W9FTI  
 12221230+W2 FM29 >EL96 -1335 WB2QLP/4

## UNITED STATES, W3

10291715 KDKA 2 PA 945 T Oglethorpe  
 11042255 WRCT 4 DC T Oglethorpe  
 11242100 KDKA 2 PA 945 T Oglethorpe



12221230 W3 FN00, FN20 >EL96 -1335 WB2QLP/4

### UNITED STATES, W4

10100056 KC4ZVO EL87>EM93 50135 KS4DU  
10100057 KD4VRZ em48>el96 50135 WAOKBZ-9  
10100057 KQ4VI em48>el98 50135 WAOKBZ-9  
10100100 KD4ESV EM55> EL87 FL 50150 W4DUP  
10241808 K4ADJ DEAN EM67 > DM59 W0MTK  
11011355 WCBF 2 SC 805 T Oglethorpe  
11042220 WUNC 4 NC //2 875 T Oglethorpe  
11042220 WUND 2 NC 1031 T Oglethorpe  
11042225 WFMY 2 NC 838 T Oglethorpe  
11042301 WESH 2 FL 789 T Oglethorpe  
11220340-AD4DY JESSE EM63>DM59 .173 S W0MTK  
11220400-KE4UPL EM66 > DM59 50.173 S W0MTK  
11250010 W4 FL > EM21 H WA5JCI  
11281400 KO4QR FM26 H N3VBG  
11290000+W4 KY <0300 F N2CZF  
11290115 WESHt 2 FL NBC, SE T Oglethorpe  
11290117 WFOR 4 FL 939 T Oglethorpe  
11290125 WPBT 2 FL 939 T Oglethorpe  
11290200-KF4CIA TERRY EM64 > DM59 S W0MTK  
11290200-W4 FL > DN70 1720 mi Es W K0GU  
11300224 WSCF FL Vero Beach91.9 F WA5IYX  
11300235 WRMF FL Palm Beach97.9 F WA5IYX  
11300236 WMT0 FL Port St. J93.5 F WA5IYX  
11300239 WCFB FL Daytona Be94.5 F WA5IYX  
11300242 WMTX FL Clearwater95.7 F WA5IYX  
11300245 WZZR FL Stuart 92.7 F WA5IYX  
11300251 WAR0 FL Naples 94.5 F WA5IYX  
11300252 WNOG FL Naples 93.5 F WA5IYX  
11300256 WCMQ FL Hialeah 92.3 F WA5IYX  
11300307 WEOW FL Key West 92.5 F WA5IYX  
12011822 KO4QR > FM26 50.135 H KD4ZVF  
12072310 W4 > EM21 H WA5JCI  
12080100 WEDU 3 FL TAMPA > KS T POMEROY  
12080100 WPBT 2 FL MIAMI > KS T POMEROY  
12090053-KA4UAJ KY EM88 > EL96 WB2QLP/4  
12122300-KB4DFK EM86 W CO20J  
12130000+AA4QT FM06 > EM97 < 0345 H KB8TEJ  
12130000+W4 EL96 > EM97 < 0345 H KB8TEJ  
12130059 WCBF 2 SC Charleston T WA5IYX  
12140028 WEDU 3 FL Tampa T WA5IYX  
12140037 WKRY FL Key West 93.5 F WA5IYX  
12142XXX KC4YO EM75 > EN81OM W KE8RO  
12142XXX KD4MQA EM64 > EN81OM W KE8RO  
12160200 W4 > EM21 H WA5JCI  
12201353 WSAV 3 GA Savannah T WA5IYX  
12201423 WVOH GA Hazlehurst93.5 F WA5IYX  
12201429 WCBF 2 SC Charleston T WA5IYX

### UNITED STATES, W5

10250104 W5UWB 58 EL17 > DM59 W0MTK  
10310234 KB5ABO > DM59 W W0MTK  
10310237 KB5HMZ EM15 > DM59 W0MTK  
10310243 AC5JA NOLAN EM21 > DM59 W0MTK  
11012335 KDBC 4 TX 746 T Oglethorpe  
11220420-KA5WRG DM15 > DM59 50.173 S W0MTK  
11220430-N5DBB DM64or65 50.173 S W0MTK  
11290000+W5 TX -0300 F N2CZF  
11290224-W5LDV BOB > DM59 S W0MTK  
11290236-N5VGS CLAY EM22 > DM59 S W0MTK  
11290245 KASAt 2 NM T Oglethorpe  
11290248-KC5ONJ JOE EM13 > DM59 S W0MTK  
11290300-KC5LOW DON EM22 > DM59 S W0MTK  
11290315-KC5MSN JOHN EM22 > DM59 S W0MTK  
11290330-KI5ST TP EM40 > DM59 S W0MTK  
11290345-WB5VYE JOE EM40 > DM59 S W0MTK  
11290400 KC5JYW GARY > DM59 S W0MTK  
11290432 K5CM -0509 EM25 > DM59 S W0MTK  
12080000 KC5OFI, WSAK EL29 > EN61 W NA9N  
12080000+N5VVB EL49 > EN61 W NA9N  
12090053-KC5NBC LA EM32 > EL96 WB2QLP/4  
12090300 W5 LA > DM94 SHORT SKIP N5WDZ  
12100100-N5EJH 59 > EK09 W XE1KK  
12100100-W5FF 59 > EK09 W XE1KK  
12100100-W5VAS > EK09 B XE1KK  
12100120 N5JHV 58 DM62 > EL17 Es S W5UWB  
12100125-WB5NRI EM22 > DM59 50.173 S W0MTK  
12100131-N5TML BRENT EM14 50.173 S W0MTK  
12100137-WA5UUD JACK EL49 50.173 S W0MTK  
12100143-KC5ICS RON EM15 50.173 S W0MTK

12100149-K5OGE GEO EM20>DM59 50.173 S W0MTK  
12100155-N5VGS CLAY EM22 50.173 S W0MTK  
12100201 K5WXN 31A DM61 FAI 144 C W5UWB  
12100201-KB5RKO EM30 > DM59 50.183 S W0MTK  
12100205-N5TSP 59 DL09 > EM48 H WAOKBZ  
12100207-N5BBO > DM59 50.180 S W0MTK  
12100209 N5JHV 31A DM62 FAI 144 C W5UWB  
12100356 KA5ZTI OK em05 > DM13 KC6NDG  
12100404 WD5ABO OK em26 > DM13 W KC6NDG  
12100407 KC5ICS OK em15 > DM13 W KC6NDG  
12100416 KC5SMO TX dm95 > DM13 W KC6NDG  
12100430 W5 OK,TX,NM K6QXY  
12100430 W5FKN TX em13 > DM13 W KC6NDG  
12100501 WD5BST NM dm93 > DM13 W KC6NDG  
12110128 W5 TX,NM -0500 K6QXY  
12110152 W5EUB J.W. EL29 50.173 S W0MTK  
12110206 KB5RKO TED EM39 -0223 S W0MTK  
12110225 W5 EL09 > DM79 50.125 H N0WVU  
12112020-W5FF > EK09 XE1KK  
12112020-W5OZI 599 > EK09 B XE1KK  
12112020-WA5UUD > EK09 XE1KK  
12120330 W5 TX,LA -0500 K6QXY  
12120400 N5JHV -0430 >CN85 H N7DB  
12121300+KC5HHN 55-59 MS > EM48 WAOKBZ  
12121300+WA5UUD 55-59 MS > EM48 WAOKBZ  
12150034 KA5FYI 559 > EK09 50066.0 B XE1KK  
12150145 W5VAS 59+ EM40 50150.0 XE1KK  
12150219 K5WE 50125.0 XE1KK  
12150221 KA5DWI DFW 50125.0 XE1KK  
12150226 KC5NOA BART EL90 -0237 S W0MTK  
12160313 W5 EM10,12,13,EL18 > EL96 WB2QLP/4  
12190340 W5 NM -0430 K6QXY  
12190340+N5JHV WEAKLY ON FAI 144.2 H K6QXY  
12190342 N5JHV 58 DAVE DM62 50.125 S W0MTK  
12200151 WA5OMD EM10 > EM79XK N8ZJN  
12200155 KC5OLC EM10 > EM79XK N8ZJN  
12200201 WB5BDI EM22 > EM79XK N8ZJN  
12200223 AC5JA EM21 > EN81 KC8CSD  
12200230 WA5OMD EM10 > EN81 KC8CSD  
12200237 N5HK EL09 > EN81 KC8CSD  
12200238 N5SVP EM00 > EM79XK N8ZJN  
12200240 N5LUI EM12 > EM79XK N8ZJN  
12200305 KC5CPP EM12 > EN81 KC8CSD  
12200316 KA5CJJ EM23 > EM79XK N8ZJN  
12201540 W5 NM,TX K6QXY  
12201645 W5FF >1730 >CN92 WA7TDZ  
12210150 W5 NM K6QXY  
12221608 N5JHV DM62 > DM09DN WB7TDI  
12221900 W5 NM K6QXY  
12230103+W5 TX,OK,AR > CN88 VE7SKA  
12230114 K5CM EM25 > CN88 50.130 S VE7SKA  
12230159 KASA 2 NM > CN88 T VE7SKA  
12230225 W5FF DM64 > CN88 50.125 S VE7SKA  
12230227-W5 NM DM65 > CN85 W WX7R  
12230230 KOB 4 NM > CN88 T VE7SKA  
12231920 W5 NM K6QXY

### UNITED STATES, W6

11171543 W6QUV, KD6WW 50.173 S W0MTK  
11281927 KD6WW BRUCE CM98 > DM59 S W0MTK  
11281947 W6/WB9AJZ CM87 > DM59 S W0MTK  
12011607 W6XP DM06 > CN88 SCATTER VE7SKA  
12011622 N6KBX CM98 > CN88 SCATTER VE7SKA  
12011646 N6KIT CN80 > CN88 SCATTER VE7SKA  
12011649 N6KIT CN80 > CN96 W WB7QBS  
12011704 W6/WB9AJZ CM87 > CN88 SCAT VE7SKA  
12081615+W6/WB9AJZ CM87 > CN88 H VE7SKA  
12081644 NU6S CM87 > CN88 50.125 W VE7SKA  
12100017 KXYX CA San Diego 96.5 F WA5IYX  
12100401 KDUQ CA Ludlow 105.7 F WA5IYX  
12100404 KHXY CA Essex 98.9 F WA5IYX  
12100421 KFOX CA Redondo B 93.5 F WA5IYX  
12150222 K5ZXE 50125.0 XE1KK  
12160111 KFMB CA San Diego 100.7 F WA5IYX  
12160112 KXYX CA San Diego 96.5 F WA5IYX  
12160114 KBZT CA San Diego 94.9 F WA5IYX  
12160133 KWST CA Bralley 94.5 F WA5IYX  
12160134 KKOS CA Carlsbad 95.7 F WA5IYX  
12160235 KCBS 2 CA Los Angeles T WA5IYX  
12160313 W6SJR DM14 > EL96 WB2QLP/4  
12160314 KC6QAI DM13 > EL96 W WB2QLP/4  
12160314+KD6H2M 59+ DM14 > EL96 W WB2QLP/4



12201230 W6 DM04 > DM94 H N5WDZ  
 12201718 W6QUV H W0MTK  
 12201748 AA6DD WILL DM13 -1800 .173 S W0MTK  
 12201800 W6 DM01,DM14 > DM94 H N5WDZ  
 12201813 K6GMV GEO DM14 -1827 .173 S W0MTK  
 12230103+W6 So.CA > CN88 VE7SKA  
 12230300+W6 DM13,12,04,03,14 -0345 W WX7R

#### UNITED STATES, W7

10300238 KTWot 2 WY NBC Mtn feed T Oglethorpe  
 11141825 KUTVt 2 UT T Oglethorpe  
 11141830 KTW 2 WY 996 T Oglethorpe  
 11161740 W7 UTAH H K6QXY  
 11211630+W7 WA -1900 K6QXY  
 11290245 KNAZt 2 AZ T Oglethorpe  
 12011644 KJ7HB CN85>CN88 BACKSCATTER VE7SKA  
 12081615+K7ICW > CN88 H VE7SKA  
 12100037 K7CA 59 DM26 > EL17 Es S W5UWB  
 12100038 K7ICW 59 DM26 > EL17 Es S W5UWB  
 12100047 W7FS 59 DM41 > EL17 Es S W5UWB  
 12100102 KILA NV Las Vegas 90.5 F WA5IYX  
 12100103 KVBC 3 NV Las Vegas T WA5IYX  
 12100109 KWRN NV Henderson 95.5 F WA5IYX  
 12100110 W7 AZ DM33 > EM21 WA5JCI  
 12100130 AA7A 57A DM43>EL17 FAI 144 C W5UWB  
 12100131 W7US > EL09QL B WA5IYX  
 12100145 W7RV > EM48 WA0KBZ  
 12100145 WA7KSF DM43 > EM48 WA0KBZ  
 12100257 W7HAH DN28 > CN88 B VE7SKA  
 12100355 WA7KUM 59 DM43 > EM48>0430 WA0KBZ  
 12100430 W7CI, W7/NU8I > EM48 WA0KBZ  
 12102245 K7CA > EM21 WA5JCI  
 12110128 W7 AZ -0500 K6QXY  
 12112350 WA7JTM 51 TEP/ES> GG54 S PY5CC  
 12112354 K7CA 51-2 TEP/ES> GG54 S PY5CC  
 12112354 W7RV 51 TEP/ES> GG54 S PY5CC  
 12112354 WB7OHF 51 TEP/ES> GG54 S PY5CC  
 12120016 W7RV 559 TEP/ES> GG54 C PY5CC  
 12120026 W7CI-0052 52 TEP/ES > GG54 S PY5CC  
 12130700 WA7YWM AZ W7GJ  
 12160122 KJOK AZ Yuma 93.1 F WA5IYX  
 12160215 W7 AZ > EM21 H WA5JCI  
 12190340 W7 AZ -0430 K6QXY  
 12201615 W7 AZ > EM21 STRONG WA5JCI  
 12201654 KVBC 3 NV Las Vegas T WA5IYX  
 12201707 KWRN? NV MUF to 95.5 F WA5IYX  
 12201827 N7USU JOHN DM26 NV -1831 S W0MTK  
 12221800 W7 NV, AZ DM56 H WA5JCI  
 12230234-W7 AZ DM42,52,43 W WX7R  
 12230243 N7AMA DM33 > CN88 50.1 S VE7SKA  
 12230246 K7VYL DM43 > CN88 50.1 S VE7SKA  
 12230255-W7 NV DM26 W WX7R  
 12230256 K7SP DM33 > CN88 50.155 S VE7SKA  
 12230258 KTVK 3 AZ > CN88 1223mileT VE7SKA  
 12230259 W7/NU8I DM43 > CN88 50.210 S VE7SKA

#### UNITED STATES, W8

11161805 WJBK 2 MI 904 T Oglethorpe  
 11220240-W8/N3QCM MI FM28 > DM59 S W0MTK  
 11220330-W8/N3JBR WV FM19>DM59 .173 S W0MTK  
 11290000+W8 OH -0300 F N2CZF  
 12090053-W8JKS OH EM89 > EL96 WB2QLP/4  
 12122300-KB8PFL EN70 W CO2OJ  
 12122300-KB8YKR, KB8UPR EM79 W CO2OJ  
 12122300-N8YSF EM89 W CO2OJ  
 12122300-N8ZJN, WZ8D EM79 W CO2OJ

#### UNITED STATES, W9

11220305-N9RXM AL EM41>DM59 50.173 S W0MTK  
 11220350-N9PEZ JOE EN50>DM59 50.173 S W0MTK  
 11220410-KB9JNO EM57 > DM59 50.173 S W0MTK  
 11290000+W9 IN -0300 F N2CZF  
 11300145 WISC 3 WI Madison T WA5IYX

#### UNITED STATES, W0

10241901 KB0UIN EM39 > DM59 W0MTK  
 11150300 W0MTK, W0IJR B K6QXY  
 11161740 W0IJR, W0MTK B K6QXY  
 11211630 W0MTK -1900 B K6QXY  
 11220250-NOXUK HOWARD EM48 > DM59 S W0MTK  
 11220300-NOIXX DAN EN40>DM59 50.173 S W0MTK  
 11220315-NOZLG JIM EM26>DM59 50.173 S W0MTK

11220320-KB0UTT DAVE EM48 50.173 S W0MTK  
 11281945 W0MTK, W0 CO B K6QXY  
 11290150 KOETC JAY EM27 > DM59 S W0MTK  
 11290212-KOTLM TOM EM29 > DM59 S W0MTK  
 11300145 KGAN 2 IA Cedar Rapids T WA5IYX  
 12100118 WOAS 59 DN70 > EL17 Es S W5UWB  
 12100150 NOLL EM09 > EM48 WA0KBZ  
 12100419 KB0USG CO dm79 > DM13 W KC6NDG  
 12120330 W0MTK, W0 CO -0500 B K6QXY  
 12201457 KGAN 2 IA Cedar Rapids T WA5IYX  
 12201540 W0 CO,KS W0IJR,W0MTK,NOLL B K6QXY  
 12221900 W0 CO,KS W0MTK,W0IJR B K6QXY  
 12230102 NOLL EM09 > CN88 50.077 B VE7SKA  
 12230110 WD0BQM DN81 > CN88 50.125 S VE7SKA  
 12230112 WB0RMO EN10 > CN88 50.060 B VE7SKA  
 12230117 W0IJR DM79 > CN88 50.065 B VE7SKA  
 12230126 W0RRY EM26 > CN88 50.140 S VE7SKA  
 12230132 KOETC EM27 > CN88 50.155 S VE7SKA  
 12230220+W0 CO DM79 > CN85 W WX7R  
 12231920 W0MTK, W0IJR B K6QXY

## Reports of Oceania

#### AUSTRALIA, General

12131000+VK TV BS 55.240 V VK3OT  
 12210000 VK TV Channel 0 59+ 46.172 V VK3OT  
 12210030+VK 50mW BRMinder 55 49.830 A VK3OT  
 12210300+VK Ch1 57.2400 V VK3OT  
 12210300+VK Ch1 IntSt 57.2600/.2604 V VK3OT  
 12210300+VK Ch2 IntSt64.260/64.2604 V VK3OT  
 12210300+VK WINTV primcarr 51.672 F VK3OT  
 12210300+VK WINTV strsubcarr 51.915 F VK3OT  
 12210400+VK 50mW BRMinder 49.85/.83 A VK3OT  
 12220400+VK 59 Room Minders 49.830 A VK3OT  
 12220400+VK TV 599+ 46.172 V VK3OT  
 12220400+VK WINTV Spur 59 52.150 F VK3OT  
 12230600+VKTV BS fm NW 46.2400 V VK3OT  
 12230700+VKTV building to Es 46.172 V VK3OT

#### AUSTRALIA-VK2

10260417 VK2 ch0 > QM05 46.24 V JA1VOK  
 11090630 VK2DN ZL3NE/1  
 11100130 VK2NZ ZL3NE  
 11140736 VK2DN ZL2AGI  
 11140845 VK2BRG 144/432 ZL3NE  
 11160815 VK2BA ZL3NE  
 11170508 VK2DN ZL2AGI  
 11170648 VK2XN ZL2AGI  
 11200135 VK2DN ZL3NE  
 11210730 VK2DN ZL3NE  
 11230730 VK2DN ZL3NE  
 11230738 VK2IBT ZL2AGI  
 11230918 VK2PB ZL2AGI  
 11230925 VK2XN ZL2AGI  
 12210015 VK2(N) Hospital59+40.67/68 P VK3OT  
 12210030 VK2(N) farmer. 55 49.770 P VK3OT  
 12210030+VK2QE 59 50.110 H VK3OT  
 12210045 VK2RHV Newcastle559 52.325 B VK3OT  
 12210130 VK2QE wkg VK3 55 50.120 H VK3OT  
 12210300+VK2RHV 579 52.345 B VK3OT  
 12210300+VK2RSY Dural NSW559 52.450 B VK3OT  
 12210400 VK2 Illegal Cordles 49.740 P VK3OT  
 12210400+VK2AT workng VK3YDE 50.140 H VK3OT  
 12220400+VK2 Mallacoota Short Skip VK3OT  
 12220400+VK2RHV 559 direct 52.345 B VK3OT  
 12220400+VK2RSY 519 scatter 52.420 B VK3OT  
 12220430+VK2HT Newcastle 59+52.525 F VK3OT  
 12220430+VK2RHV 559Newcastle 52.325 B VK3OT  
 12220430+VK2RSY Sydney 559 52.420 B VK3OT  
 12220440 VK2RHV Newcastle 59+52.325 B VK3OT

#### AUSTRALIA-VK3

11260520 VK3DUT ZL2AGI  
 11260725 VK3DEH ZL2AGI  
 12210015 VK TV Tamworth 55 46.261 V VK3OT  
 12210100 VK Ch 0 pix lock 59+51.672 F VK3OT  
 12210300+VK Tamworth Ch 0 st 52.005 F VK3OT  
 12220400 VK3 (N) TV 599 46.2400 V VK3OT  
 12220400+VK3 Backscatter VK3OT  
 12220400+VK3 Tamworth Stereo 52.005 F VK3OT



## AUSTRALIA-VK4

1021 548 VK4GMH	50.110	JE2DWZ
1021 615 VK4BRG	50.0775 B	JA9BHZ
10210548 VK4GMH > PM85	50.110 S	JE2DWZ
1024 620 VK4GMH	50.110	JA9BHZ
10260330 VK4 ch0 > QM05	46.17 V	JA1VOK
10260350 VK4 ch0 > PM63	46.17 V	JA5CMO
1027 540 VK4JH	50.110 C	JA9BHZ
1027 544 VK4JH	50.110 C	JH6VXP
1027 545 VK4JH	50.110 H	JA5
1027 550 VK4JH	50.150	JH1WHS
10270430 VK4 ch0 > QM05	46.17 V	JA1VOK
10270530 VK4JH > PM74	50.110 H	JJ3WXG
10270535 VK4JH > QM05	50.110 H	JA1VOK
10270540 VK4JH > PM86	50.110 C	JA9BHZ
10270544 VK4JH > PM53	50.110 C	JH6VXP
10270550 VK4BRG > PM74	50.0775 B	JJ3WXG
10270550 VK4JH > PM95	50.150 S	JH1WHS
10270557 VK4BKM > PM74	50.110 H	JJ3WXG
10270559 VK4FP > PM74	50.110 H	JJ3WXG
10270645 VK4JH > PM63	50.110 C	JA5CMO
1028 538 VK4APG	50.150	JE1HXZ
1028 544 VK4TZL	50.130 H	JA2
10280450 VK4 ch0 > QM05	46.17 V	JA1VOK
10280535 VK4APG > QM05	50.150 S	JA1VOK
10280539 VK4AFL > QM05	50.140 S	JA1VOK
11010700 VK4 ch0 > QM05	46.17 V	JA1VOK
11020445 VK4 ch0 > QM05	46.17 V	JA1VOK
11030200 VK4 ch0 > PM75	46.17 V	JA3JTG
11030413 VK4 ch0 > QM05	46.17 V	JA1VOK
11030506 VK4LE > PM95	50.110 S	JH1WHS
11030509 VK4TZL > PM75	50.120 S	JA3JTG
11030513 VK4LE > QM05	50.110 S	JA1VOK
11140720 VK4/VK2FZ	144	ZL3NE
11140730 VK4APG	144	ZL3NE
11140731 VK4/VK2FZ 559	432	ZL3NE
11140755 VK4IC	144	ZL3NE
11140758 VK4JSR	144/432	ZL3NE
11140902 VK4APG 59+20	144	ZL3NE
11140950 VK4ARN	144	ZL3NE
11141000 VK4ZQ	144	ZL3NE
11141105 VK4AFL	144/432	ZL3NE
11141110 VK4ZQ	432	ZL3NE
11141900 VK4/VK2FZ	144	ZL3NE
11150430 VK4 ch0 > PM75	46.17 V	JA3JTG
11152250 VK4/VK2FZ	50	ZL3NE
11180445 VK4 ch0 > QM05	46.17 V	JA1VOK
11230735 VK4AFL		ZL3NE
11240100 VK4/VK2AFZ		ZL3NE
11300530 VK4 ch0 > PM63	46.17 V	JA5CMO
12010450 VK4 ch0 > QM05	on 46.17 V	JA1VOK
12122130+VK4ABP	52.345 B	VK30T
12122130+VK4BRG	50.077 B	VK30T
12122130+VK4RGG	50.057 B	VK30T
12150330 VK4ABP 559		B VK30T
12210030+VK4GRB Sarina 559	50.0775 B	VK30T
12210030+VK4RGG Nerang 559	50.0575 B	VK30T
12210300+VK Ch0 Toowoomba sp	52.150 F	VK30T
12210300+VK4RGG 599+	50.0575 B	VK30T
12210300+VK4TZL wkg Gipps 59	50.160 H	VK30T
12210400+VK4RGG NerangGoldC	50.0575 B	VK30T
12220230 VK4ABP 519 Longreach	52.345 B	VK30T
12220400+VK4 Main carr 59	51.750/74 F	VK30T
12220400+VK4 Toowoomba 59	51.915 F	VK30T
12220400+VK4RGG 599 Nerang	50.0575 B	VK30T
12220430+VK4ABP 559	52.345 B	VK30T
12230430 VK4ABP 559	52.345 B	VK30T
12230430+VK4BRG 559	50.0775 B	VK30T
12230600+VK4ABP back in 529.	52.345 B	VK30T

## AUSTRALIA-VK5

11140749 VK5BC	ZL2AGI
12250400+VK5 Backscatter	VK30T

## AUSTRALIA-VK7

11260700 VK7AB	ZL2AGI
12122130+VK7RAE ES & AUES	50.057 B VK30T
12122130+VK7RST 599	52.370 B VK30T
12131000+VK7 TV VID+AUD 86.20/91.70	F VK30T
12131000+VK7AB ES BS	W VK30T
12131000+VK7REA	B VK30T
12131000+VK7RST	B VK30T

12220400+VK7RAE 519 BScatter 50.057 B VK30T

## AUSTRALIA-VK8

12122130+VK8RAS 599	50.047 B VK30T
12150335 VK8RAS 599 PG66	50.047 B VK30T
12150340 VK8VF 559 Darwin	50.058 B VK30T
12150350-VK8RH 599+ Darwin	clg CQ H VK30T
12230400 VK8RAS 559	50.0475 B VK30T
12230600+VK8GF Alice Springs	50.110 VK30T
12230600+VK8PN CQ 529 PH.	50.110 H VK30T
12230600+VK8RAS	50.0475 B VK5
12230600+VK8RAS 519 scatter	50.0475 B VK30T
12230610 VK8GF 55/55	50.120 S VK30T

## GUAM

1026 523 KH2D	50.110 C	JA1VOK
1026 534 KH2D	50.110	JE2DWZ
1026 542 KH2D	50.110	JG1TSG
1026 547 KH2D	50.110	JK7IKU
1026 605 KH2D	50.109	JA0GLM
10260523 KH2D > QM05	50.110 C	JA1VOK
10260534 KH2D > PM85	50.110 S	JE2DWZ
10260542 KH2D > QM05	50.110 S	JG1TSG
10260547 KH2D > QM09	50.110 S	JK7IKU
10260555 KH2D > PM74	50.110 H	JJ3WXG

## HAWAIIAN IS.

11231015 KHON	2 HI -1205	55.25 V	ZK1AA
11251440 KHON	2 HI -1605	55.25 V	ZK1AA
11240925 KHON	2 HI -1225	55.25 V	ZK1AA
11241440 KHON	2 HI -1620	55.25 V	ZK1AA
11260730 KHON	2 HI -1225	55.25 V	ZK1AA
11261439 KHON	2 HI -1554	55.25 V	ZK1AA
11270753 KHON	2 HI -1235	55.25 V	ZK1AA
11271435 KHON	2 HI -1550	55.25 V	ZK1AA
11290745 KHON	2 HI -1225	55.25 V	ZK1AA
11291445 KHON	2 HI -1605	55.25 V	ZK1AA

Stuart, ZK1AA, reports that between at least Nov 30 and Dec 9 that he recorded no TEP during his early evening hours, but that KHON appeared very weak around local midnite and built in strength until closedown around 2:30AM local, returning at sign-on until just after sunrise (1600Z).

12141440 KHON	2 HI -1600	55.25 V	ZK1AA
12171437 KHON	2 HI -1610	55.25 V	ZK1AA
12181029 KHON	2 HI -1229	55.25 V	ZK1AA
12181439 KHON	2 HI -1610	55.25 V	ZK1AA

Stuart reports KHON in on the 19th and 20th between local midnite until after sunrise.

12231120 KHON	2 HI -1220	55.25 V	ZK1AA
12231445 KHON	2 HI -1545	55.25 V	ZK1AA
12221025 KHON	2 HI -1225	55.25 V	ZK1AA

## NEW ZEALAND: Note the correspondence between

ZK1AA's reports of ZL TV via Es and Japanese reports of ZL TV via TEP on Nov 24 and Dec 14 & 15.

11030339 ZL ch1 > QM05	45.24 V	JA1VOK
11030411 ZL ch1 > QM05	45.26 V	JA1VOK
11030435 ZL ch1 > QM05	45.25 V	JA1VOK
11030455 ZL(?)KW > PM74	50.110 H	JJ3WXG
11080509 ZL2TPY > PM86	50.110 H	JA9BHZ
11090447 ZL ch1 > PM63	45.24 V	JA5CMO
11090453 ZL ch1 > QM05	45.24 V	JA1VOK
11100305 ZL ch1 > QM05	45.24 V	JA1VOK
11100315 ZL TV > QM05	45.26 V	JA1VOK
11100515 ZL TV > QM05	45.25 V	JA1VOK
11100530 ZL ch1 > PM63	45.24 V	JA5CMO
11160335 ZL ch1 > QM05	45.24 V	JA1VOK
11230317 ZL ch1 > QM05	45.25 V	JA1VOK
11230337 ZL ch1 > QM05	45.26 V	JA1VOK
11230350 ZL ch1 > QM05	45.24 V	JA1VOK
11232000 ZL TV 1 -0400 Es		V ZK1AA
11240000 ZL ch1 > PM63	45.25 V	JA5CMO
11240000 ZL ch1 > QM05	45.25 V	JA1VOK
12062300 ZL Video 539 BS	45.24/.260 V	VK30T
12062330 ZL Video Es 559	45.2604 V	VK30T
12070300 ZL2TPY Auckland 55	50.150 H	VK30T
12070320 ZL 55.250/45.2496/45.250 V		VK30T
12070320 ZL Es 45.2396/45.2604 V		VK30T
12070400 ZL 59+	50.750/50.760 F	VK30T
12070405 ZL2AFI 559	50.110 C	VK30T



12070410	ZL3SIX RE66	50.040	B	VK3OT
12070500	ZL3NW 59	50.130	S	VK3OT
12070510	ZL2TPY calling CQ	50.110	H	VK3OT
12070521	ZL3TIB Tib 59	50.130	S	VK3OT
12070540	ZL2AGI Cliff 59	50.120	S	VK3OT
12070640	ZL1THQ calling CQ	50.110	H	VK3OT
12070650	ZL2TPY Kerry 59+	50.125	S	VK3OT
12070810	ZL 62.261/62.240/62.2502	V	VK3OT	
12070815	ZL4KB/ZL4LV 59+	50.150	V	VK3OT
12070820	ZL Sound 59 67.750/67.760	F	VK3OT	
12070830	ZL TV1 45.2600/2610	V	VK3OT	
12070830	ZL TV1 45.2396/2400/2500	V	VK3OT	
12070830	ZL3TY ZL4KB		VK3OT	
12070850	ZL3SIX RE66 599	50.040	B	VK3OT
12070900	ZL4KB Bill 59	50.124	S	VK3OT
12071100	ZL Sound	67.760	F	VK1RX
12122130	ZL TV		T	VK3OT
12131000+ZL	TV BS 46.24/51.74	V	VK3OT	
12140215	ZL chl > QM05	45.24	V	JA1VOK
12140220	ZL chl	45.25	V	JA1VOK
12140230-ZL	TV 1 -0700 Es		V	ZK1AA
12140345	ZL chl	45.26	V	JA1VOK
12142215-ZL	TV 1 >12150400 Es		V	ZK1AA
12150440	ZL chl	45.25	V	JA1VOK
12170000	ZL chl > PM75	45.24 45.25	V	JA3JTG
12210030+ZL	TV weak 319 45.24/.25	V	VK3OT	
12210400+ZL	Chl Wellington 45.2500	V	VK3OT	
12212145	ZL All Offsets. 45.250+/-	V	VK3OT	
12212215	ZL All offsets. 55.2604	V	VK3OT	
12212215+ZL	Ch 3 559	62.260	V	VK3OT
12212215+ZL3SIX	559 RE66	50.040	B	VK3OT
12220000	ZL2/3 59 wkg	50.110	H	VK3OT
12220000+ZL2MQ	59	50.140		VK3DUT
12220000+ZL2TPY	59	50.130	V	VK4AFL
12220100	ZLTV 599+	45.2396	V	VK3OT
12220100+ZL	FM Sound 59+	50.750	F	VK3OT
12220100+ZL	Nicam stereo 59+	51.000	F	VK3OT
12220100+ZL3SIX	559	50.040	B	VK3OT
12220100+ZLTV	55 55.2412/55.2500	V	VK3OT	
12220100+ZLTV	599 45.2502/2602/2609	V	VK3OT	
12220100+ZLTV	599++Wellington	45.250	V	VK3OT
12220430+ZL	519BS Wellington	45.250	V	VK3OT

#### MINAMI TORI SHIMA

12020322 JD1YBJ QL64 > PM95 50.110 C JH1WHS

## Reports of South America

#### ARGENTINA

11052034	LU8YYO 57	50.033	B	LW5EJU TR
11052210	LU5JAU 57 DANIEL	50.115	S	LW5EJU TR
11071938	LU5JAU 59+	50.110	S	LW5EJU TR
11091938	LU5JAU 59 GF07VM	50.110	S	LW5EJU TR
11091938	LU8JBO 53 CONCORDIA	50.110	S	LW5EJU TR
11112210	LU5JAU 59+ DANIEL	50.120	S	LW5EJU TR
11132215	LU5JAU 59+ GF07VM	50.110	S	LW5EJU TR
11142304	LU5JAU 57	50.120	S	LW5EJU TR
11152042	LU5JAU 57 DANIEL	50.110	S	LW5EJU TR
11161930	LU5JAU 51	50.110	S	LW5EJU TR
11162330	LU5JAU 59+	50.120	S	LW5EJU TR
11171302	LU7FA 58 FF96BV	50.110	S	LW5EJU TR
11192246	LU6WN 59+ RAFAEL	50.110	S	LW5EJU ES
11192255	LU1MAF 57 MENDOZA	50.110	H	LW5EJU ES
11210052	LU5JAU 59 DANIEL	50.110	S	LW5EJU TR
11220129	LU5JAU 52 DANIEL	50.110	S	LW5EJU TR
11222131	LU5JAU 51	50.120	S	LW5EJU ES
11222200	LU8YYO 55 NEUQUEN	50.033	B	LW5EJU ES
11292042	LU5JAU 51	50.110	S	LW5EJU TR

#### CURACAO NETH ANTILLES

11222337	PJ2SIX/b 519 TEP	50.003	B	PY5CC
11230038	PJ2SIX 53	50.004	B	LW5EJU TE

#### BRAZIL

11011824	PY2AA 55	50.059	B	LW5EJU ES
11011839	PY2??? 52 ORAPY	52.910	R	LW5EJU ES
11011843	PY2SFY 52	50.010	B	LW5EJU ES
11012353	PY2DYR 54 CASAPAVA	50.110	S	LW5EJU ES
11152045	PY9MP 52 MATOGROSO	50.110	S	LW5EJU ES
11161230	PY2AA 59 -1300	50.059	B	LW5EJU ES
11161243	PU2MCK 59+ GG65	50.110	S	LW5EJU ES

11161250	PY2CDS 59+ GG65UR	50.130	S	LW5EJU ES
11161300	PY???? 51	50.110	H	LW5EJU ES
11192140	PY2AA 55	50.059	B	LW5EJU ES
11192148	PY2DNR 59 GG77GA	50.110	S	LW5EJU ES
11192149	PY2SFY 59 WILSON	50.110	S	LW5EJU ES
11222058	PY2AA 55	50.059	B	LW5EJU ES
11222103	PP5BC 57 FLORIANAPOLIS		S	LW5EJU ES
11222153	PP5JD 55 ISLA CAMBORIU		S	LW5EJU ES
11241844	PY2DNR 59 MAURO	50.110	S	LW5EJU ES
11241850	PY2AA 59+ -2200	50.059	B	LW5EJU ES
11241855	PU2MIZ 57 /RPTR	52.910	F	LW5EJU ES
11241855	PY2JQ 57 /RPTR	52.910	F	LW5EJU ES
11241911	PU1XES 57 RIO D JANIERO		S	LW5EJU ES
11241940	PY2RZW 57	50.110	H	LW5EJU ES
11241957	PP5AW 53 I.CAMBORIU	.110	S	LW5EJU ES
11241958	PP5JD 59 I.CAMBORIU	.110	S	LW5EJU ES
11242119	PU2MNU 53 SAN PABLO	50.110	S	LW5EJU ES
11242357	PP2RON 57 RON GH53MP	.110	S	LW5EJU ES
11292331	PY3ASN 53 GF49	50.120	S	LW5EJU TR
11292334	PU3ASN 58 GF49	50.110	S	LW5EJU TR
11292345	PY3PT 59 GF49JX	50.110	S	LW5EJU TR
11292355	PY5CC 57 GG54RE	50.120	S	LW5EJU ES
12112323	PY5CC GG54 > DM26	-0010	W	K7CA
12120013	PY9MP 55 ES > GG54		S	PY5CC
12120020	PY9RTO 51 ES > GG54		S	PY5CC
12120028	PY9WW 53 ES > GG54		F	PY5CC

#### CHILE

11051520	CE 59+ MUSIC -2300	47.900		LW5EJU ES
11191924	CE 59+ MUSIC	47.900		LW5EJU ES
11222100	CE 59+ MUSIC -2359	47.900		LW5EJU ES

#### URUGUAY

11080152	CX7IY 53 FERNANDO	50.110	S	LW5EJU TR
11170033	CX7IY 52 PAISANDU	50.120	S	LW5EJU TR
11270145	CX4HS 53 GF06XX	50.130	S	LW5EJU TR

#### VENEZUELA

11020120	YV4AB 53	50.025	B	LW5EJU TE
11020126	YV4YC 53 MARACAY	50.110	S	LW5EJU TE
11030213	YY4GLD 51 FK60	50.110	S	LW5EJU TE
11030215	YV4AB 51	50.025	B	LW5EJU TE
11040127	YV4YC 51 BEN	50.120	S	LW5EJU TE
11040137	YV4AB 51	50.025	B	LW5EJU TE
11060015	YV4AB/b 519 TEP	50.025	B	PY5CC
11092340	YY4GLD 55 MARACAY	50.108	S	LW5EJU TE
11092345	YV4AB 53	50.025	B	LW5EJU TE
11100143	YV4AB 54	50.025	B	LW5EJU TE
11140100	YV4AB 53	50.025	B	LW5EJU TE
11190030	YV4YC 52 BEN	50.110	H	LW5EJU TE
11190045	YV4AB 51	50.025	B	LW5EJU TE
11200055	YV4AB 52	50.025	B	LW5EJU TE
11210130	YV4AB 52	50.025	B	LW5EJU TE
11210131	YV4YC 51 BEN	50.130	H	LW5EJU TE
11220124	YV4AB 51	50.025	B	LW5EJU TE
11222338	YV4AB/b 419 TEP	50.025	B	PY5CC
11230040	YV4AB 51	50.025	B	LW5EJU TE
11230050	YV4YC 55 BEN	50.110	H	LW5EJU TE
11250005	YV4AB 53	50.025	B	LW5EJU TE
11262337	YV4AB 57	50.025	B	LW5EJU TE
11300030	YY4GLD 54 MARACAY	50.110	S	LW5EJU TE
11300040	YV4AB 51	50.025	B	LW5EJU TE
12112330	YV4AB/b 599 TEP > GG54		C	PY5CC
12120037	YY4GLD 59 TEP > GG54		S	PY5CC

## More Call Letter Changes

WB4WTC	W4MW	EM95	Roger Web, Mt.Holly NC
WA1AYS	K1SG	FN42	Stephen Gilbert, Hopkinton MA
N7AVK	W7EW	CN84	Lewis Sayre, Salem OR
K6UIY	W6CAP	DM14	Charles Petit, Hesperia CA
W6YKM	W6YM	CM98	Fred Honnold, Pine Grove CA

## 1997 50 MHz DXCC Needs Survey

Included with issues of this bulletin mailed to North America is a questionnaire from WB8YFE. It is intended to steer DXpeditioners to the most needed countries this next summer's Es season. Please complete and mail it to him.



# December 1996 6m Beacon List

The most comprehensive 50MHz beacon list ever, compiled by GJ4ICD with thanks to: OH1ZAA, G0JHC, K1TOL, JA1VOK, JF6DEA, ZS6PW, SM7AED, G3UBX, G3USF, K6FV, W3EP, OH6DD, K6QXY, VE9AA and others.

FREQ::	CALL::	GRID::	POWER::	ANT::
50.000	GB3BUX	IO93	15	TURNSTILE
50.001	VE1SMU	FN84	25	3 EL Yagi EAST
50.001	BV2FG	PL05	3	5/8 VERTICAL x-Sun.
50.003	7Q7SIX	KH74	5	
50.004	HV3SJ	JN61	10	5-el at 315 degrees
50.004	PJ2SIX	FK52	22	4 * D/P HORIZ/OMNI
50.005	ZS2SIX	KF25	25	DIPOLE
50.008	VE8SIX	CP38	85	4 ELE
50.008	H10VHF	FK58	??	???
50.008	XE2HVB	DL44	5	6 EL BEAM
50.0095	PY2SFY	GG7GA	4	WATTS
50.010	SV9SIX	KM25	30	VERTICAL DIPOLE
50.010	JA2IGY	PM84	10	5/8 G/PLANE
50.012	VP2EA	???	25	RINGO RANGER
50.013	CU3URA	HM68	05	5/8 VERTICAL
50.013	S55ZRS	JN76	8	G/PLANE
50.0155	LU9EHF	FF95	15	DIPOLE
50.017	JA6YBR	PM51	50	TURNSTILE
50.018	V51VHF	JG87	60	5/8 VERTICAL
50.019	CX1CCC	GF15	05	G/PLANE
50.021	OZ7IGY	JO55	30	TURNSTILE
50.0215	FR5SIX	LG78	02	HALO
50.0225	XE1KK	EK09	20	OMNI
50.023	LX0SIX	JN39	10	DIPOLE
50.023	SR5SIX	KO02	07	1/4 G/P
50.0235	ZP5AA	GG14	05	VERTICAL
50.025	OH1SIX	KP11	40	8 * D/P HORIZ/OMNI
50.025	YV4AB	FK50	15	RINGO
50.025	9H1SIX	JM75	07	5/8 G/PLANE
50.027	JA7ZMA	QM07	50	2-TURNSTILE
50.028	SR6SIX	JO81	10	G/PLANE
50.028	XE2UZL	DM10	25	2 SQ/LOOPS
50.030	CT0WW	IN61	40	DIPOLE 700M
50.031	VE6XIS	DO21	25	4 EL YAGI 1000mts off air 1700-2300
50.032	JR0YEE	PM97	02	LOOP
50.0325	ZD8VHF	II22	50	5/8 JVL
50.035	ZB2VHF	IM76	30	5 EL
50.036	VE4VHF	EN19	35	VERTICAL OMNI
50.037	ES0SIX	KO18	15	X/DIPOLES
50.037	JR6YAG	PL36	10	2 - 5/8 GP
50.037	FY7THF	GJ35	100	G/PLANE
50.038	FP5XAB	GN16	26	???
50.039	VO1ZA	GN37	1	1/4 WAVE
50.040	ZL3SIX	RE66	20	N/W N/E
50.040	SV1SIX	KM17	25	VERTICAL DIPOLE
50.041	VE6EMU	DO33	35	4EL NNE
50.042	GB3MCB	IO70	40	1/2 DIPOLE
50.043	ZL3MHF	RE66	20	VERTICAL
50.043	YO2S	KN05	2	DIPLOLE
50.044	VE6ARC	DO05	25	V/G/P
50.044	ZS6TWB	KG46	30	6 EL Beaming north
50.046	VK8RAS	PG66	15	X/DIPOLE
50.047	TR0A	JJ40	15	5 el beam North.
50.047	4N1SIX	KN04	10	VEE
50.047	JW7SIX	JQ78	10	4 EL/YAGI
50.048	VE8BY	FP53	30	
50.049	VA3BCN	FN03	2	D/POLE
50.050	ZS6DN	KG44	100	5EL
50.050	GB3NHQ	IO91	15	TURNSTILE
50.051	LA7SIX	JP99	30	4 EL BEAMING 190
50.052	PA3FYM	JO22	9	DIPOLE N/S
50.052	Z21SIX	KH52	08	1/4 G/PLANE
50.053	VE1PZ	FN85	15	EGGBEATER
50.053	VK3RMV	QF12	12	COLINEAR
50.0555	V44K	FK87	03	5/8 VERTICAL
50.0565	J3EOC	FK	1.6	HALO
50.057	VK7RAE	QE38	20	X/DIPOLES
50.057	VK8VF	PH57	100	1/4 VERTICAL
50.058	VK4RGG	QG62	06	TURNSTILE
50.058	VE3UBL	FN03	10	TURNSTILE
50.059	PY2AA	GG66	5	GROUND PLANE
50.059	JH0ZPI	PM96	10	??
50.060	KA5FYI	EM10	??	??

50.060	W5VAS	EM40	50	SQUALO
50.060	GB3RMK	IO77	40	DIPOLE @ 240M
50.060	K4TQR	EM63	03	D/POLE
50.061	KH6HME	BK29	20	DIPOLE
50.061	KE7NS	DN31	2	Squalo
50.061	WB0RMO	EN10	50	SQUALO
50.062	WA8R	EM79	1	HALO
50.062	W7HAH	DN28	25	HALO
50.062	WA8HTL	EN82	2	OMNI
50.062	KA0NNO	EM24	8	HALO
50.064	AA5ZD	EM12	??	??
50.064	GB3LER	IP90	30	BEAM
50.065	AB5L	EM13	200mw	DIPOLE
50.065	W0IJR	DM79	20	2 RING HALO
50.065	KG9AE	EM69	10	AR6 OMNI
50.065	KH6HI	BL01	15	TURNSTILE
50.065	W3VD	FM19	7	SQUALO:
50.065	W0MTK	DM59	2	4 VEE/D/POLES
50.0655	GB3IOJ	IN89	10	VERTICAL
50.066	W5OZI	DM90	20	DIPOLE
50.066	VK6RPH	OF88	10	U/D/POLE
50.066	WA1OJB	FN54	30	J POLE
50.067	W3HH	EN90	10	LOOP
50.067	KD4LP	EM-86	10	VERTICAL
50.067	W4RFR	EM66	2	???
50.067	OH9SIX	KP36	35	4 * D/P HORIZ/OMNI
50.068	W7US	DM42	50	4/EL
50.069	K6FV	CM87	100	V/beamed E.
50.070	W2CAP	FN41	15	V/DIPOLE
50.070	SK3SIX	JP71	10	DIPOLE
50.070	W7WKR	CN87	10	BEAM
50.070	EA3VHF	JN01	.25	VERTICAL
50.071	WB5LUA	EM12	1.5	HALO
50.071	KA5BTP	EM40	??	????
50.072	KS2T	FM29	10	G/PLANE
50.072	WA4NTF	EM81	??	???
50.072	KW2T	FN13	.5	SQUALO
50.073	WB4WTC	FM06	10	2 LOOPS
50.073	WR7V	CN87	10	HALO
50.073	ES6SIX	KO37	1	G/PLANE
50.073	NN7K	DM09	1	RINGO RANGER
50.075	W5SKC/7	DM41	5	HALO
50.075	VR2SIX	OL72	7	G/PLANE
50.075	NL7XM/2	FN20	1	
50.076	KL7GLK/3	FM18	4	OMNI
50.077	VE3DRL	???	??	??
50.077	N0LL	EM09	21	2 * HALO'S
50.077	WB2CUS	EL98	1	LOOP
50.0775	VK4BRG	QG48	5	TURNSTILE
50.078	OD5SIX	KM74	8	1/4 VERTICAL
50.079	JX7DFA	IQ50	10	5EL YAGI
50.079	TI2NA	EJ79	20	DIPOLE
50.080	ZS1SES	JF96	??	
50.082	CO2FRC	EL83	2	D/POLE
50.083	LZ1SIX	KN12	??	????
50.086	VP2MO	FK86	10	6 EL YAGI QRV?
50.087	PB0ALN	JO22	??	???
50.0873	YU1SIX	KN03	15	DIPOLE
50.0875	VE9MS	FN65	40	2 H/LOOPS
50.089	VE2TWO	FO13	15	DIPOLE
50.095	PY5XX	GG54	50	D/POLE
50.162	IS0SIX	JM49	1	DIPOLE
50.230	F6IKY	JN35		
50.293	VK3SIX		15	Beamed to ZS6
50.306	VK6RBU	OF76	100	260 degrees/10W 080 degrees - 3el Yagi
50.315	FX4SIX	JN06	25	X/DIPOLES @ 160M ASL
50.480	JH8ZND	QN02	10	G/PLANE
50.485	JH9YHP	PM86	2/10	X/D/P
50.490	JG1ZGW	PM95	10	DIPOLE
50.499	5B4CY	KM64	15	1/4 GP
50.521	SZ2DF	KM25	1000	4 * 16E QTF330/EL30
51.029	ZL2MHB	RF80	1/10	1/2 VERTICAL
52.345	VK4ABP	QG26	4	1/4 VERTICAL
52.420	VK2RSY	QF56	25	TURNSTILE
52.450	VK5VF	PF95	10	DELTA LOOP
52.510	ZL2MHF	RE78	4	D/POLE

There are other beacons qrv not listed here because they are private non 24 hours ones, please advise us of any info left out. Any additions/changes then please Email me at: [equinox@itl.net](mailto:equinox@itl.net)